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Population Dynamics of Arctic Alaska: A graphical library of changes in 102 towns and villages, 1990–2020

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Population Dynamics of Arctic Alaska

A graphical library of changes in 102 towns and villages, 1990–2020

Arctic Village Dynamics project
supported by the U.S. National
Science Foundation OPP-1822424

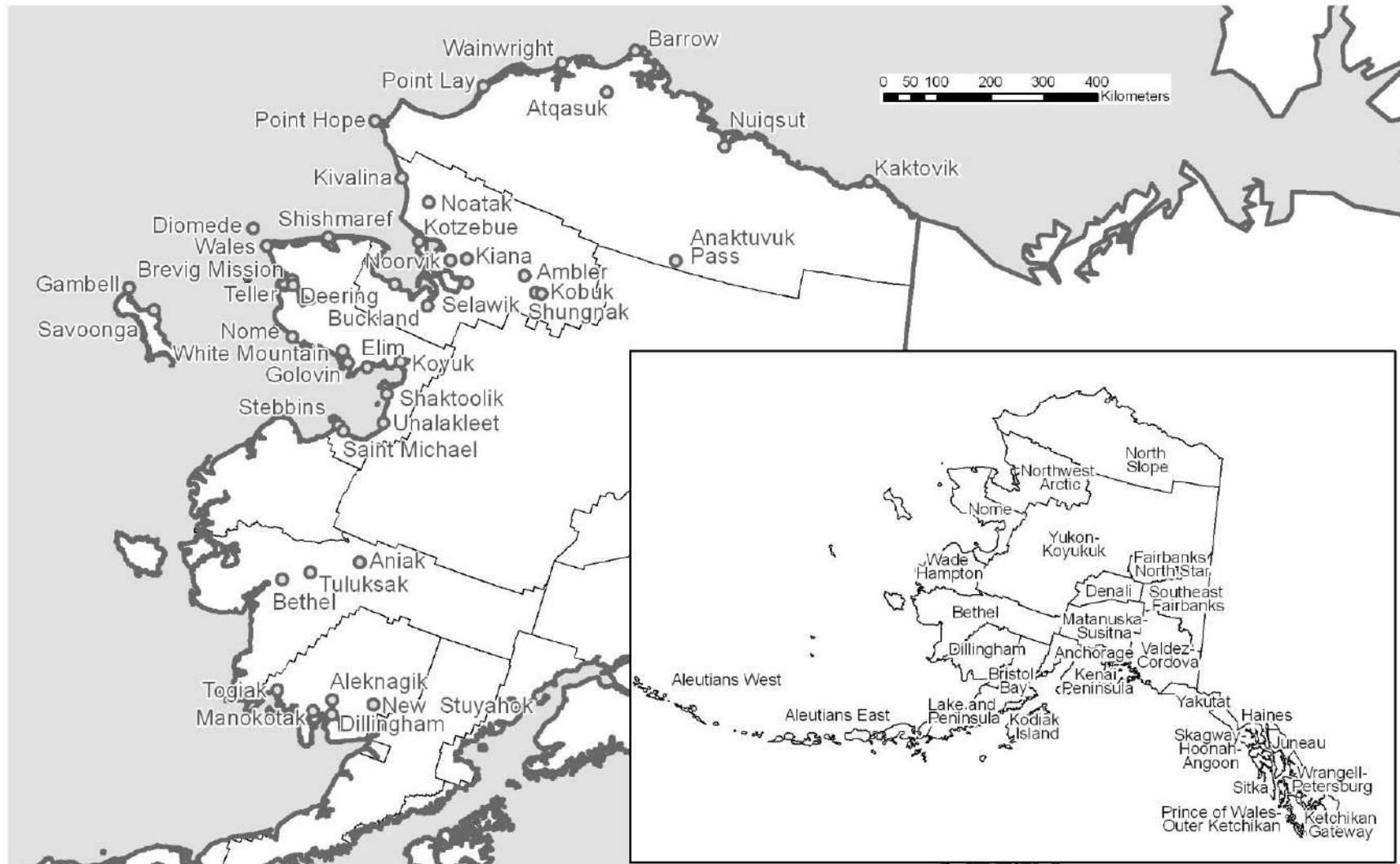
Lawrence Hamilton

University of New Hampshire

February 2021



Graphs showing annual estimates of population and net migration from 102 communities, 1990 – 2020, build upon earlier reports covering a shorter time period and just 43 Arctic Alaska communities (map from Hamilton & Mitiguy 2009).



Yearly population and net migration estimates

- Annual mid-year estimates of community population were obtained from the U.S. Census or, between Census years, the Alaska Department of Labor and Workforce Development. The Department of Labor and Workforce Development estimates population using administrative data, notably Permanent Fund Dividend applications—a unique resource permitting what the U.S. Census Bureau has judged to be the most accurate yearly estimates of any U.S. state (Alaska Department of Labor and Workforce Development 2008).
- Net migration each year is estimated from the difference between this year's population, and last year's population adjusted for births and deaths (based on data from the Health Analytics and Vital Records Section of the Alaska Department of Health and Social Services). Fiscal year 2020, for example, reflects births and deaths from July 1 2019 through June 31 2020. The migration estimates thus correspond approximately to the timing of population estimates.
- *Further discussion and analysis of community-level demographic data can be found in the following research papers:*
- Hamilton, L.C. & A.M. Mitiguy. 2009. "Visualizing population dynamics of Alaska's Arctic communities." *Arctic* 62(4):393–398. <https://www.jstor.org/stable/40513330?seq=1>
- Hamilton, L.C., D.M. White, R.B. Lammers & G. Myerchin. 2012. "Population, climate and electricity use in the Arctic: Integrated analysis of Alaska community data." *Population and Environment* 33(4):269–283. <https://doi.org/10.1007/s11111-011-0145-1>
- Hamilton, L.C., K. Saito, P.A. Loring, R.B. Lammers & H.P. Huntington. 2016. "Climigration? Population and climate change in Arctic Alaska." *Population and Environment* 38(2):115–133. <https://doi.org/10.1007/s11111-016-0259-6>
- Hamilton, L.C., J. Wirsing & K. Saito. 2018. "Demographic variation and change in the Inuit Arctic." *Environmental Research Letters* 13:11507. <https://doi.org/10.1088/1748-9326/aae7ef>

Bethel Census Area

Akiachak CDP

Akiak City

Aniak City

Atmautluak CDP

Bethel City

Chefornak City

Chuathbaluk City

Eek City

Goodnews Bay City

Kasigluk CDP

Kipnuk CDP

Kongiganak CDP

Kwethluk City

Kwigillingok CDP

Lower Kalskag City

Mekoryuk City

Napakiak City

Napaskiak City

Newtok CDP

Nightmute City

Nunapitchuk City

Quinhagak City

Toksook Bay City

Tuluksak CDP

Tuntutuliak CDP

Tununak CDP

Upper Kalskag City

Dillingham Census Area

Aleknagik City

Dillingham City

Ekwok City

Koliganek CDP

Manokotak City

New Stuyahok City

Togiak City

Kusilvak Census Area

Alakanuk City

Chevak City

Emmonak City

Hooper Bay City

Kotlik City

Marshall City

Mountain Village City

Nunam Iqua City

Pilot Station City

Pitkas Point CDP

Russian Mission City

Scammon Bay City

St. Mary's City

Lake and Peninsula Borough

Iliamna CDP

Kokhanok CDP

Newhalen City

Nondalton City

Port Alsworth CDP

Port Heiden City

Nome Census Area

Brevig Mission City

Elim City

Gambell City

Golovin City

Koyuk City

Nome City

Savoonga City

Shaktoolik City

Shishmaref City

St. Michael City

Stebbins City

Teller City

Unalakleet City

Wales City

White Mountain City

North Slope Borough

Anaktuvuk Pass City

Atqasuk City

Kaktovik City

Nuiqsut City

Point Hope City

Point Lay CDP

Utqiagvik City

Wainwright City

Northwest Arctic Borough

Ambler City

Buckland City

Deering City

Kiana City

Kivalina City

Kobuk City

Kotzebue City

Noatak CDP

Noorvik City

Selawik City

Shungnak City

Yukon-Koyukuk Census Area

Allakaket City

Arctic Village CDP

Fort Yukon City

Galena City

Grayling City

Holy Cross City

Hughes City

Huslia City

Kaltag City

Manley Hot Springs CDP

McGrath City

Minto CDP

Nenana City

Nulato City

Ruby City

Tanana City

Venetie CDP

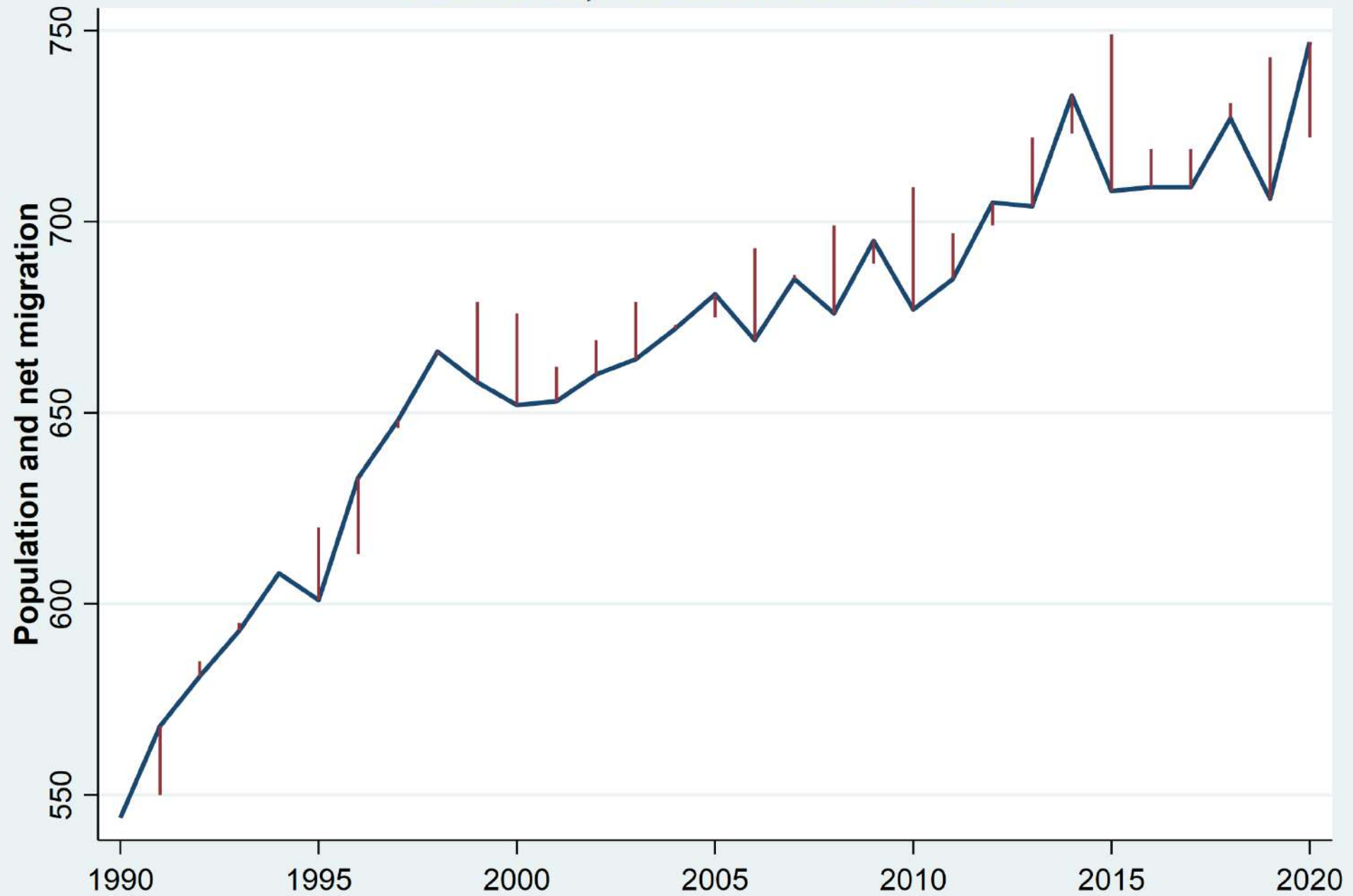
Akiachak, Bethel Census Area



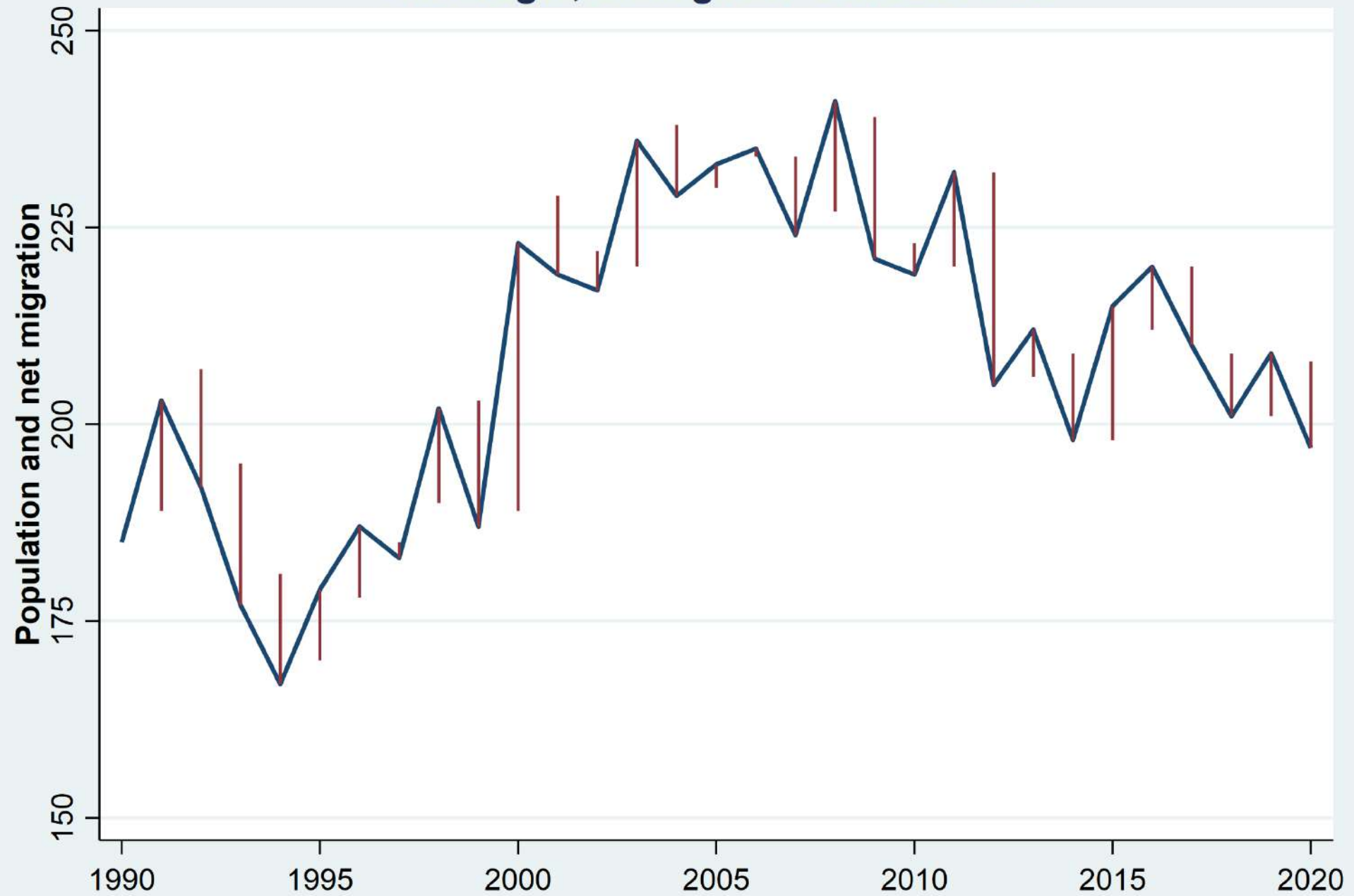
Akiak, Bethel Census Area



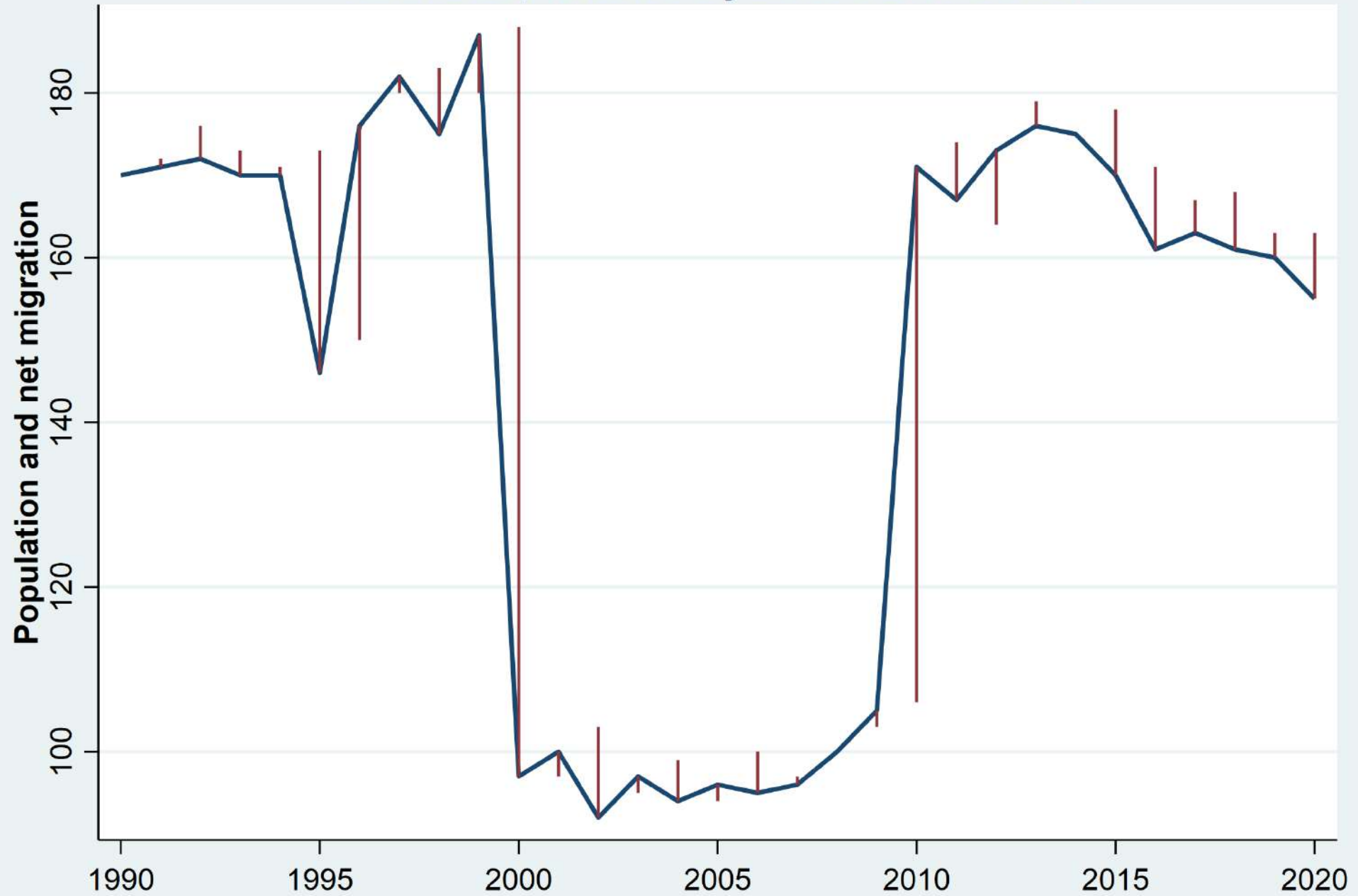
Alakanuk, Kusilvak Census Area



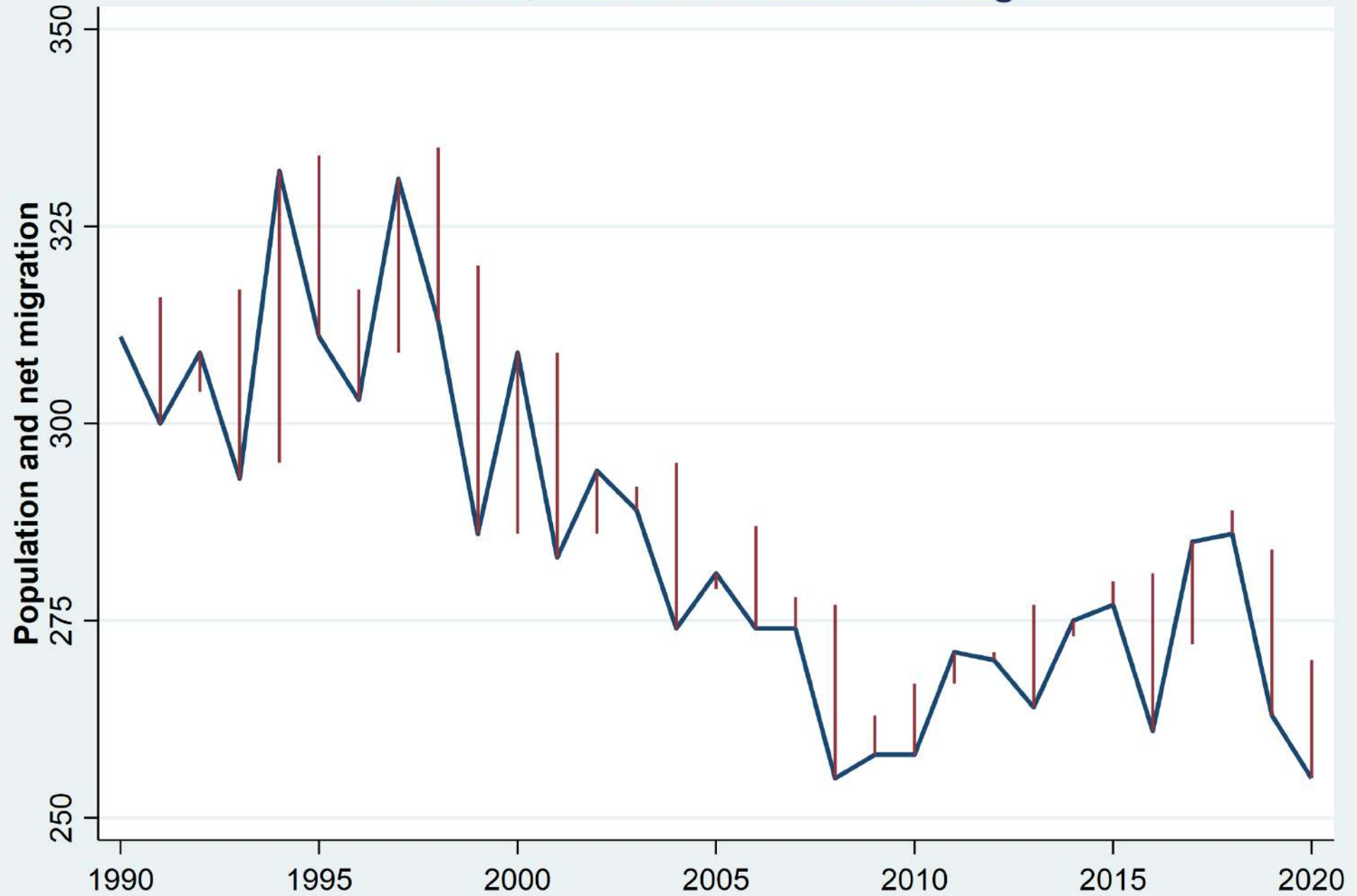
Aleknagik, Dillingham Census Area



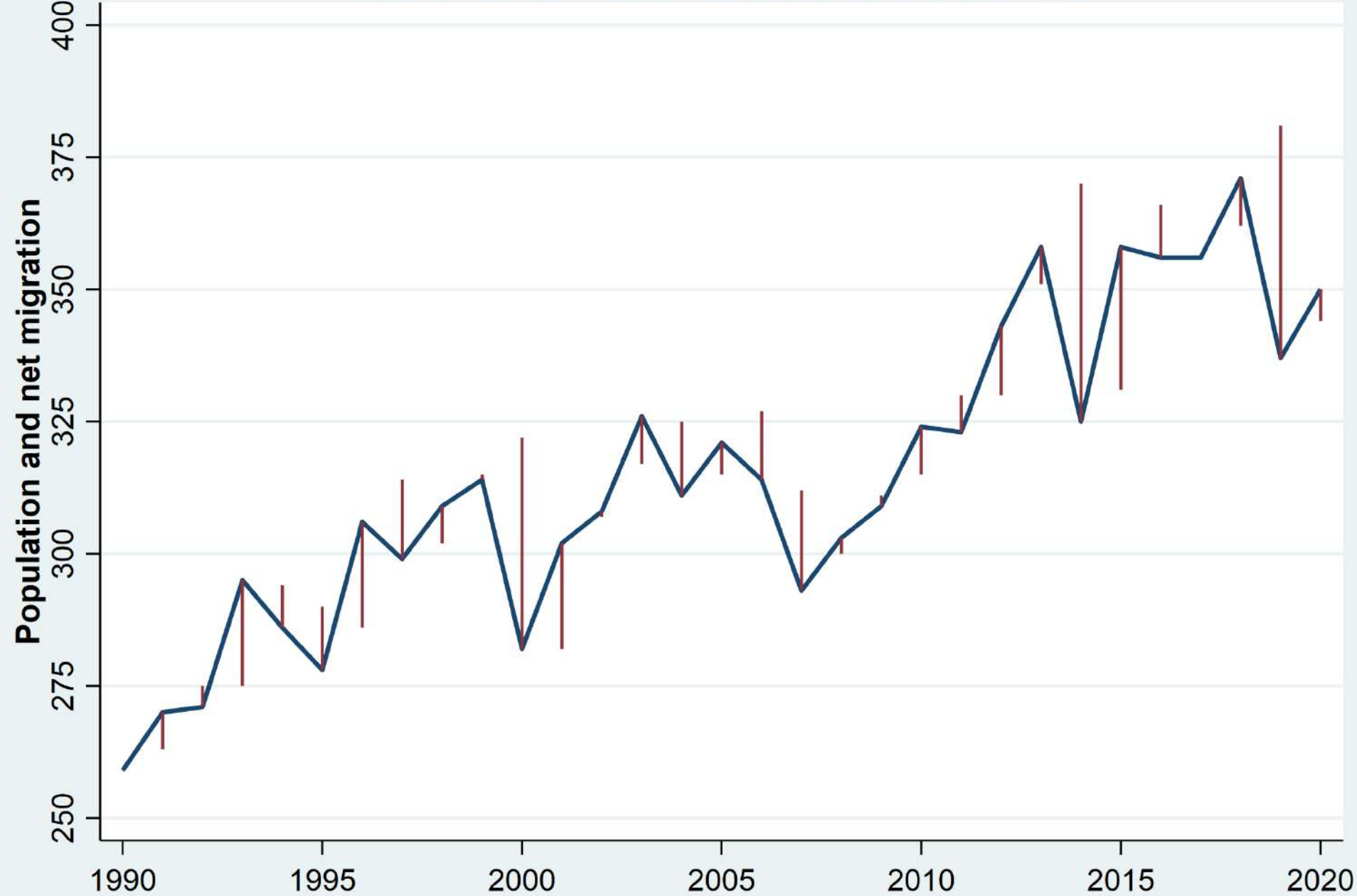
Allakaket, Yukon Koyukuk Census Area



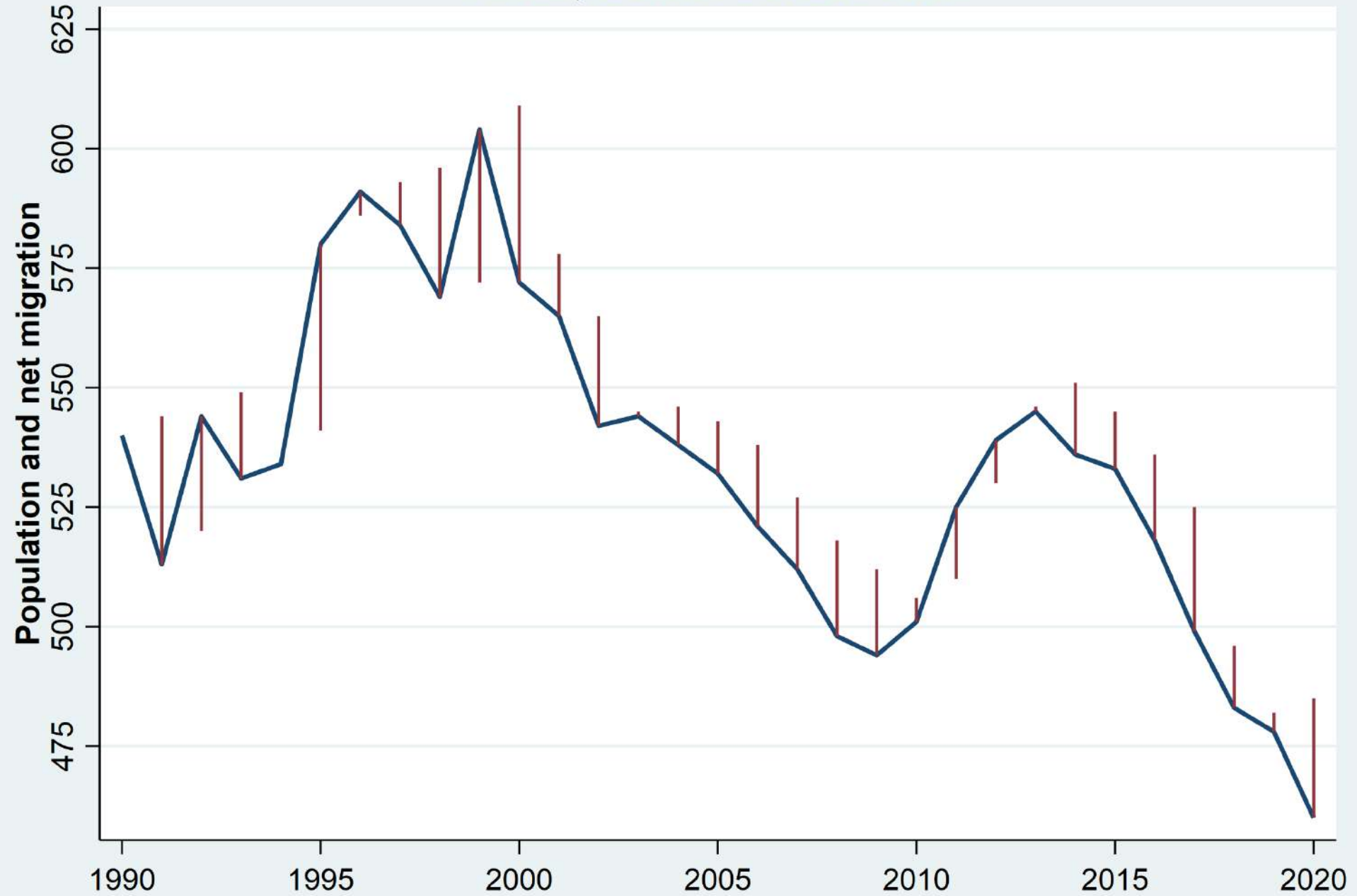
Ambler, Northwest Arctic Borough



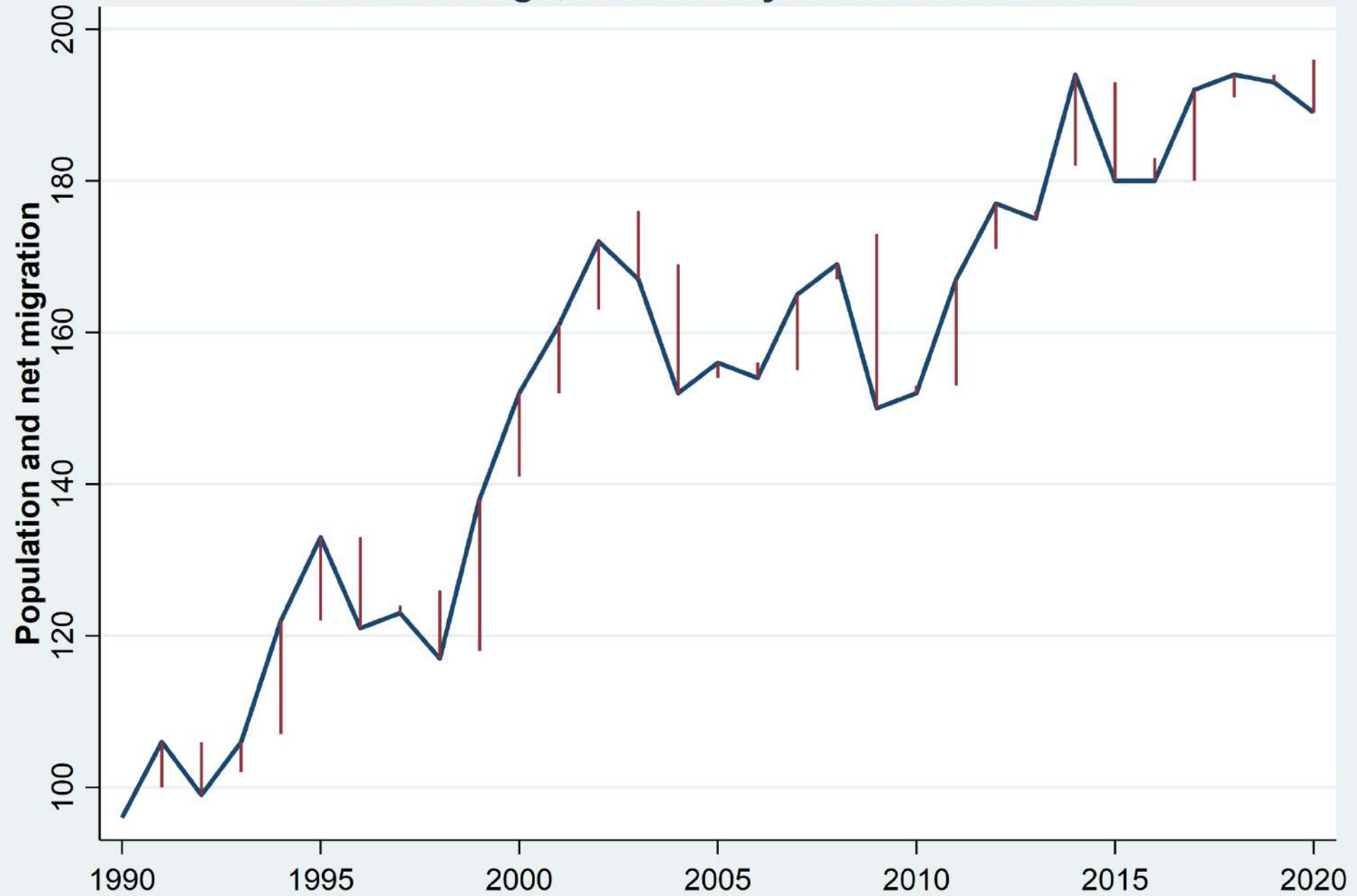
Anaktuvuk Pass, North Slope Borough



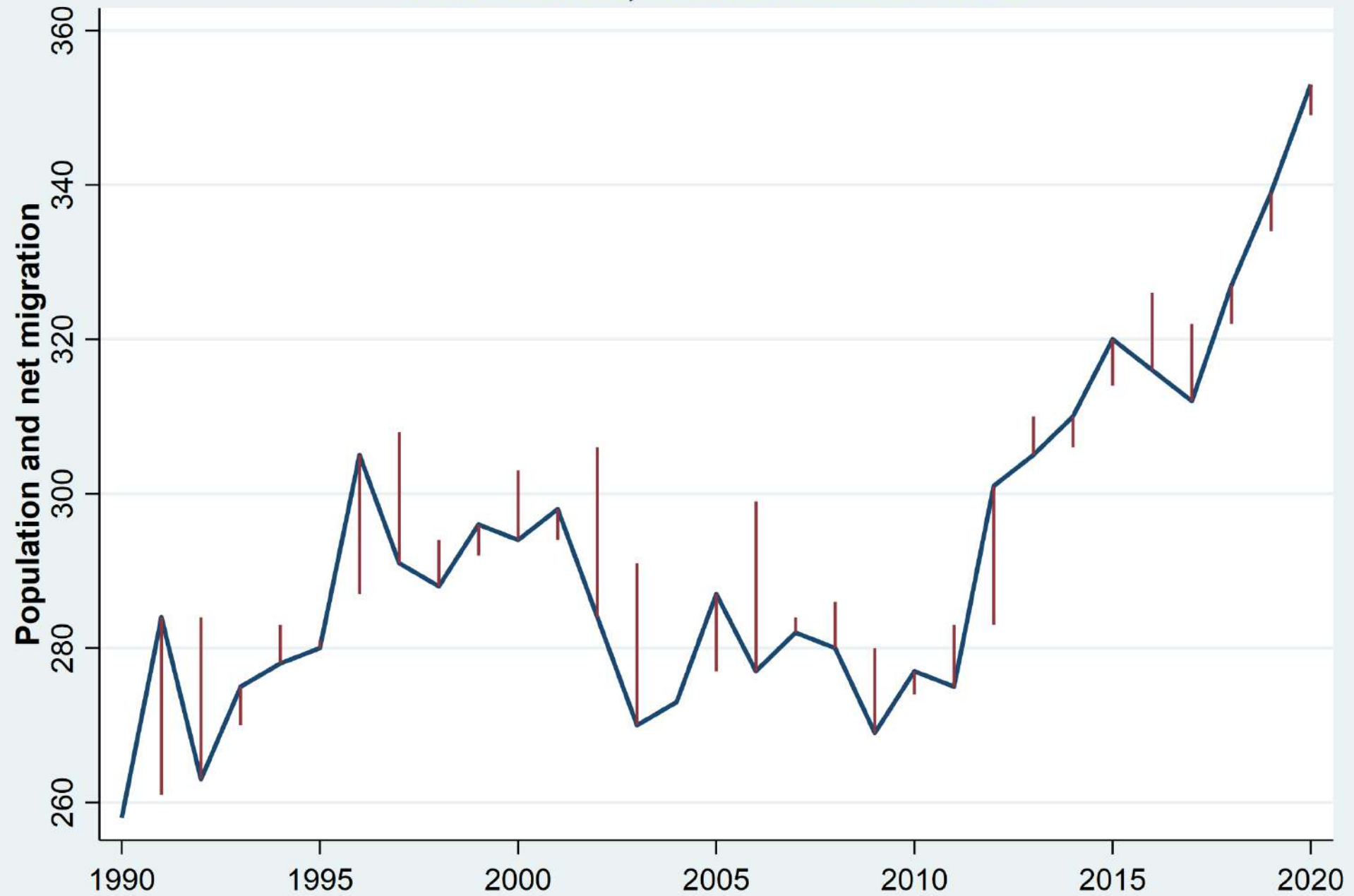
Aniak, Bethel Census Area



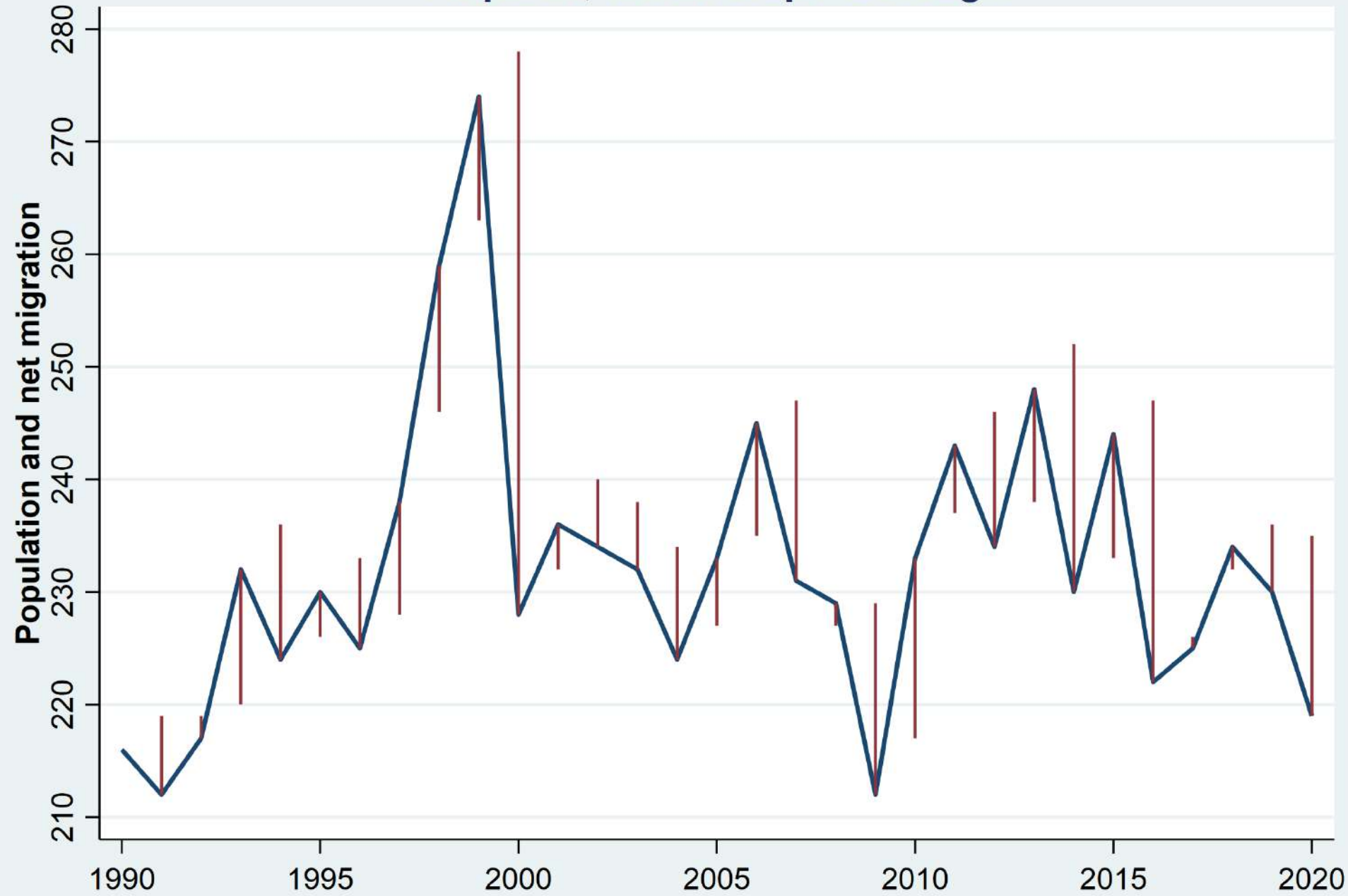
Arctic Village, Yukon Koyukuk Census Area



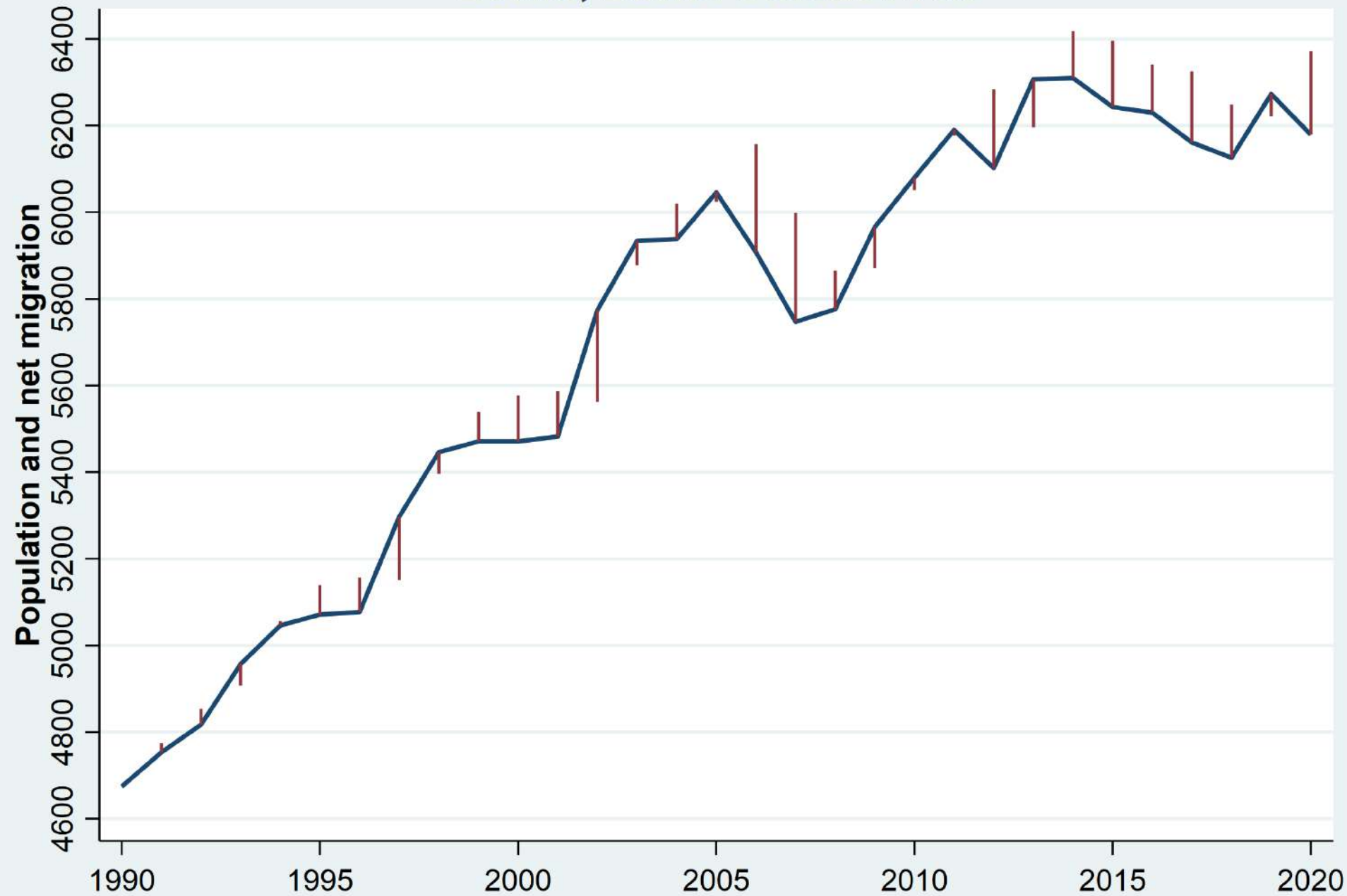
Atmautluak, Bethel Census Area



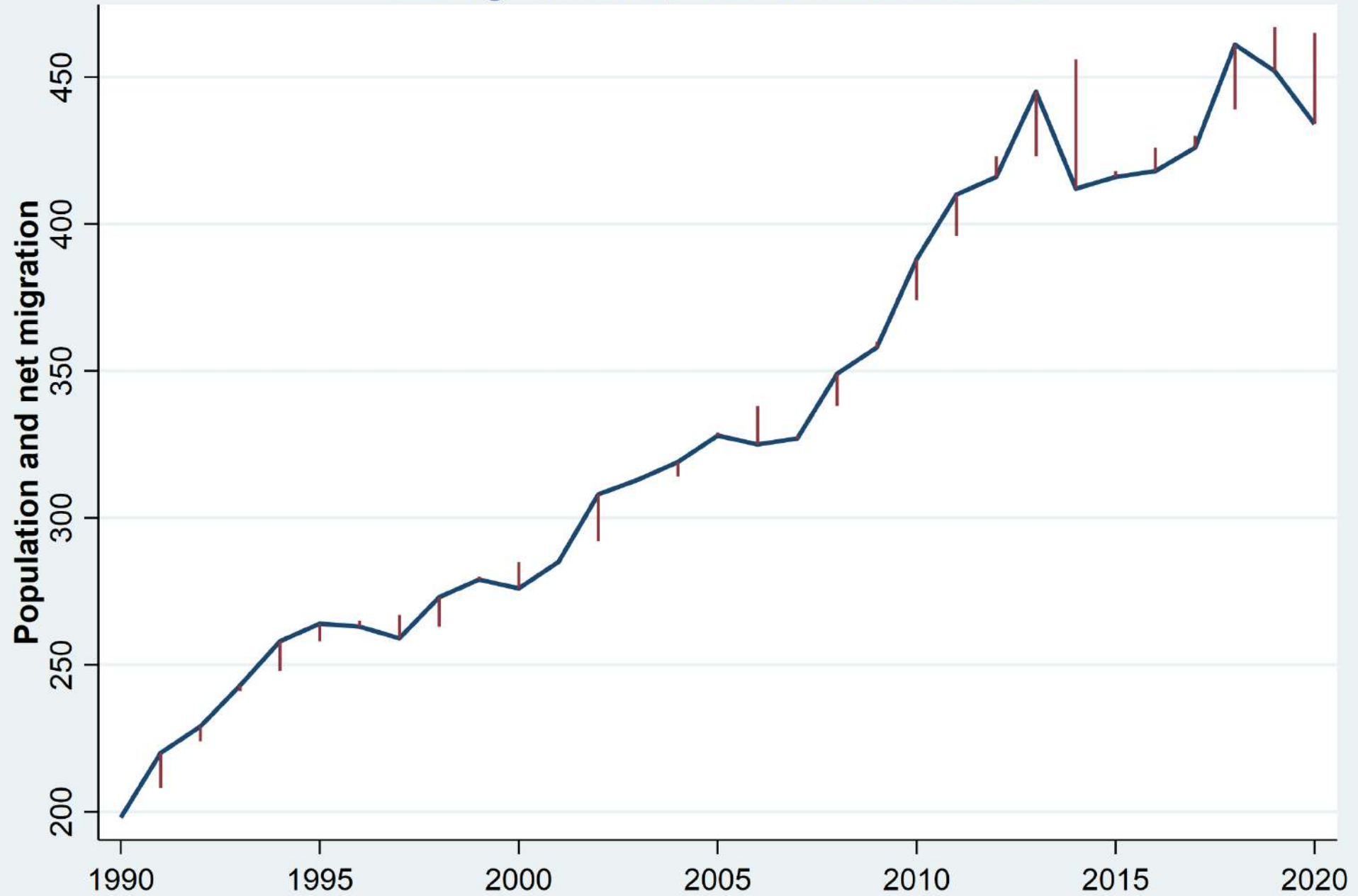
Atqasuk, North Slope Borough



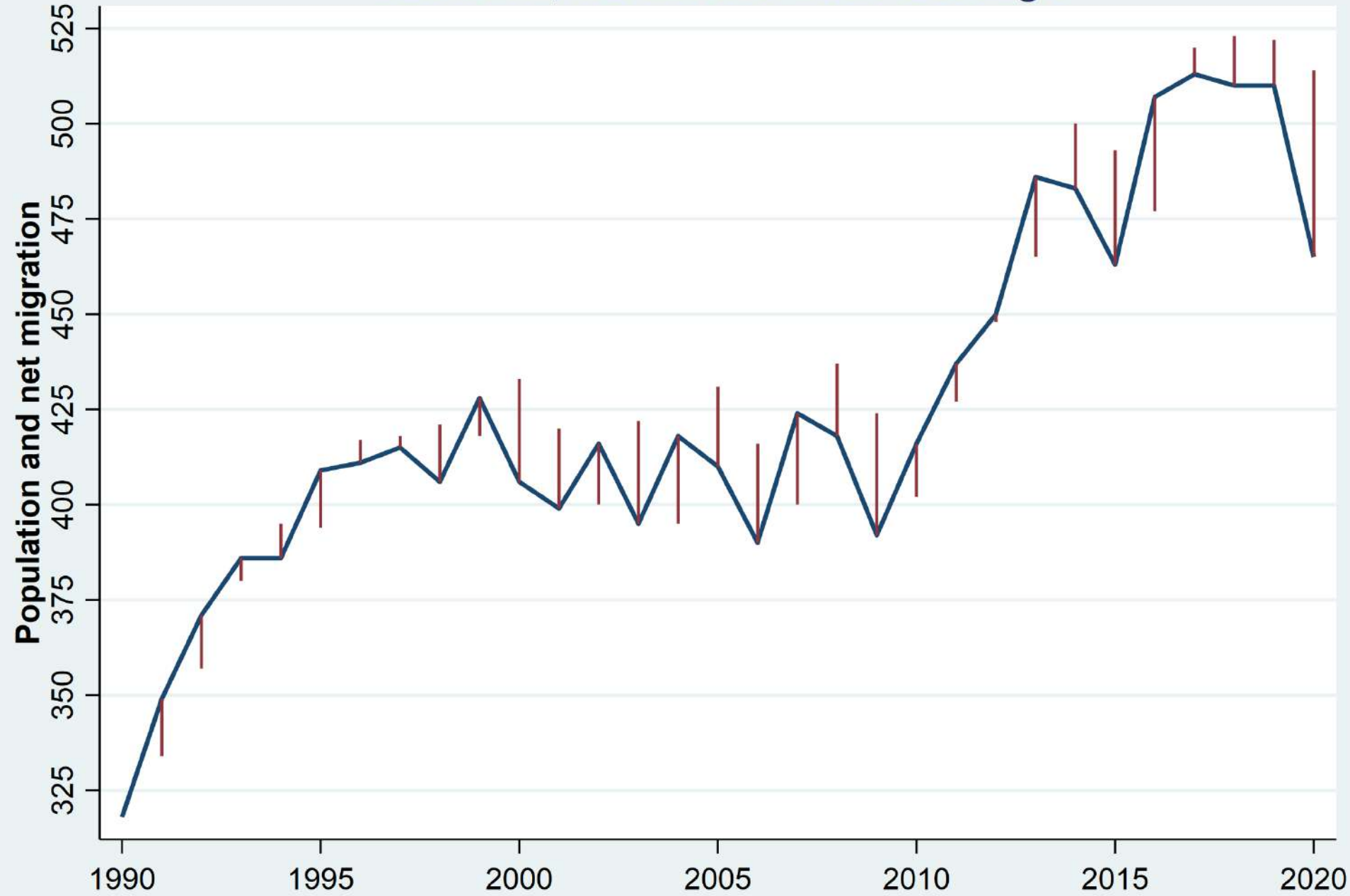
Bethel, Bethel Census Area



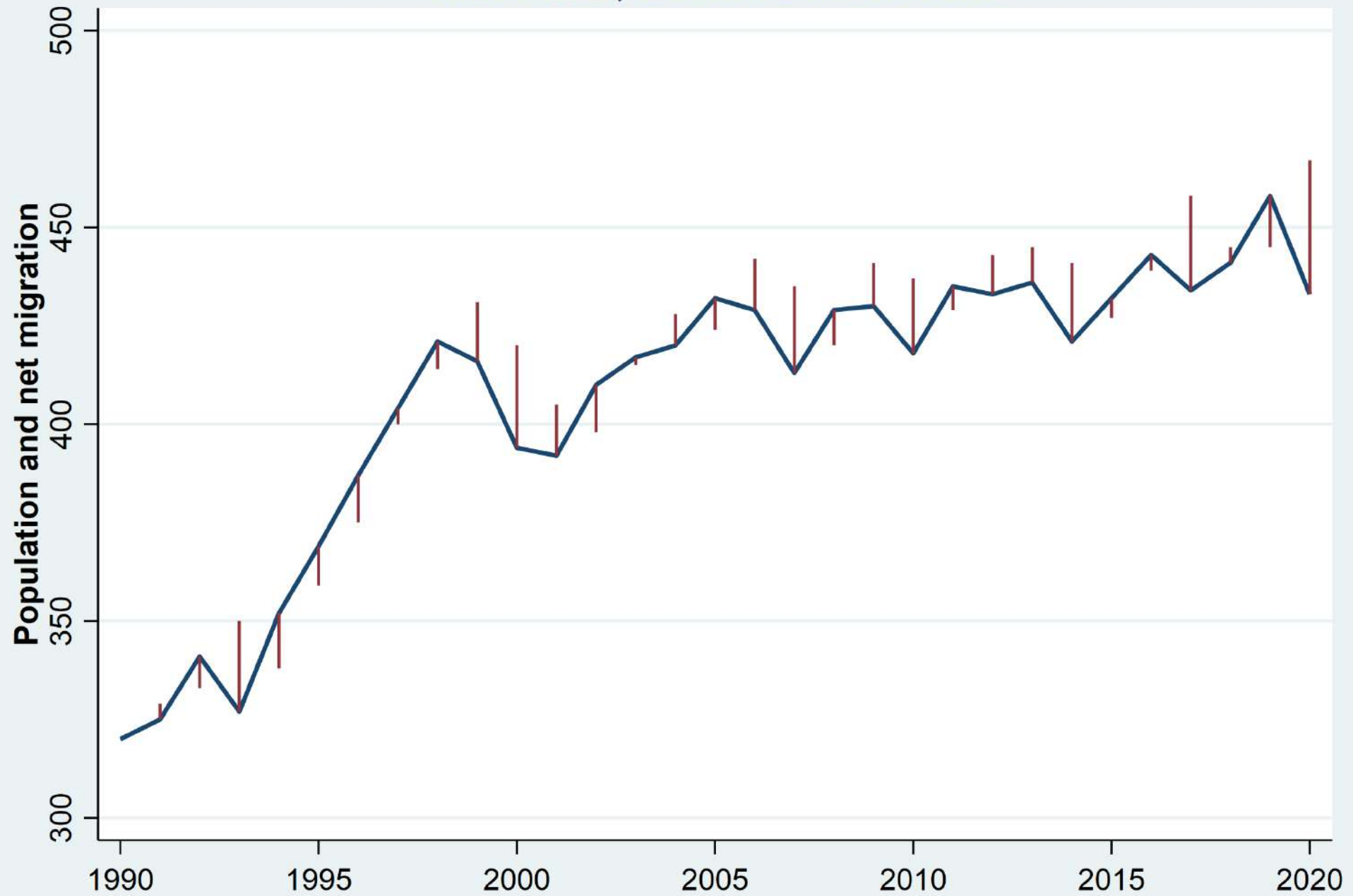
Brevig Mission, Nome Census Area



Buckland, Northwest Arctic Borough



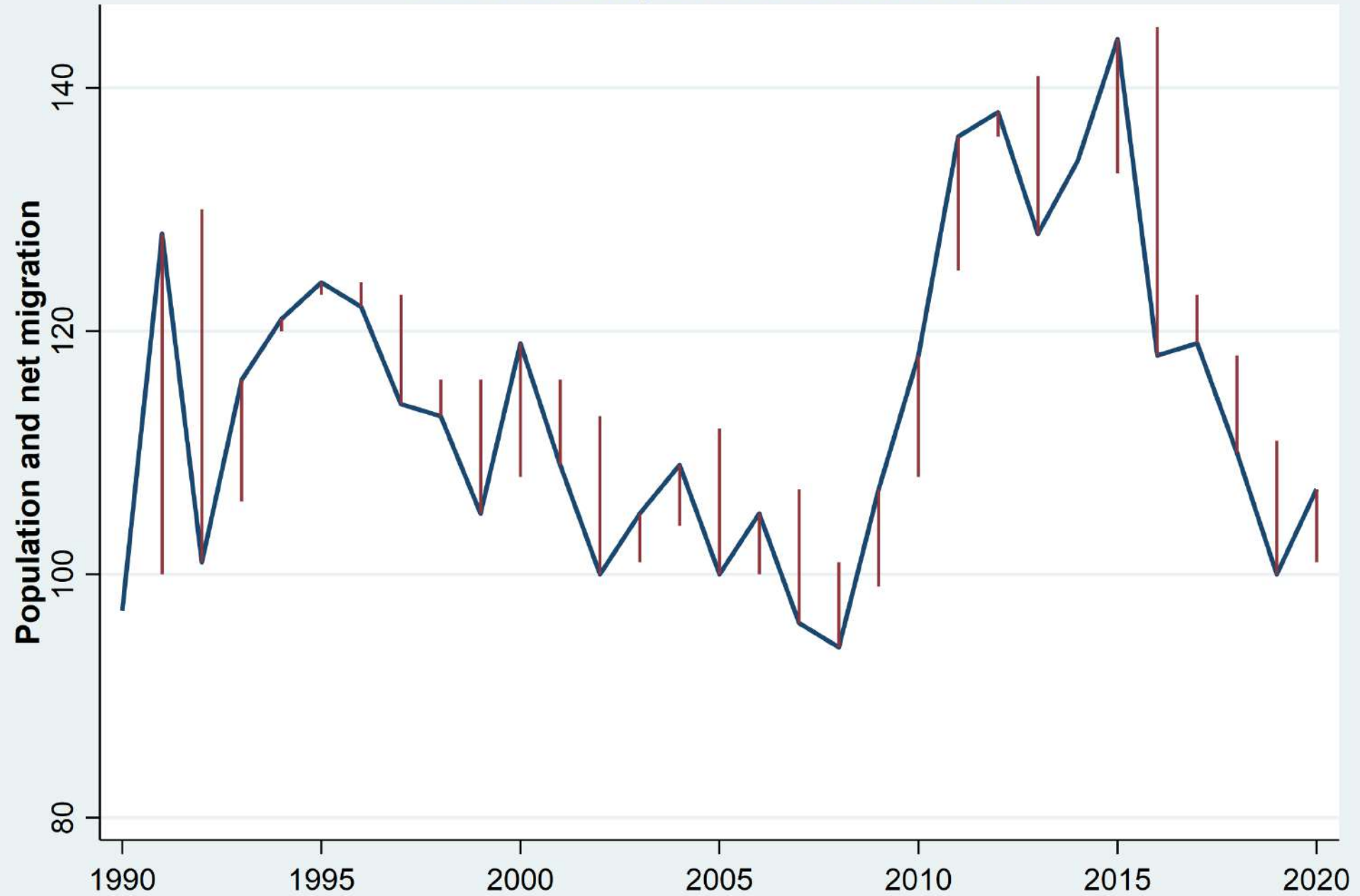
Chefornak, Bethel Census Area



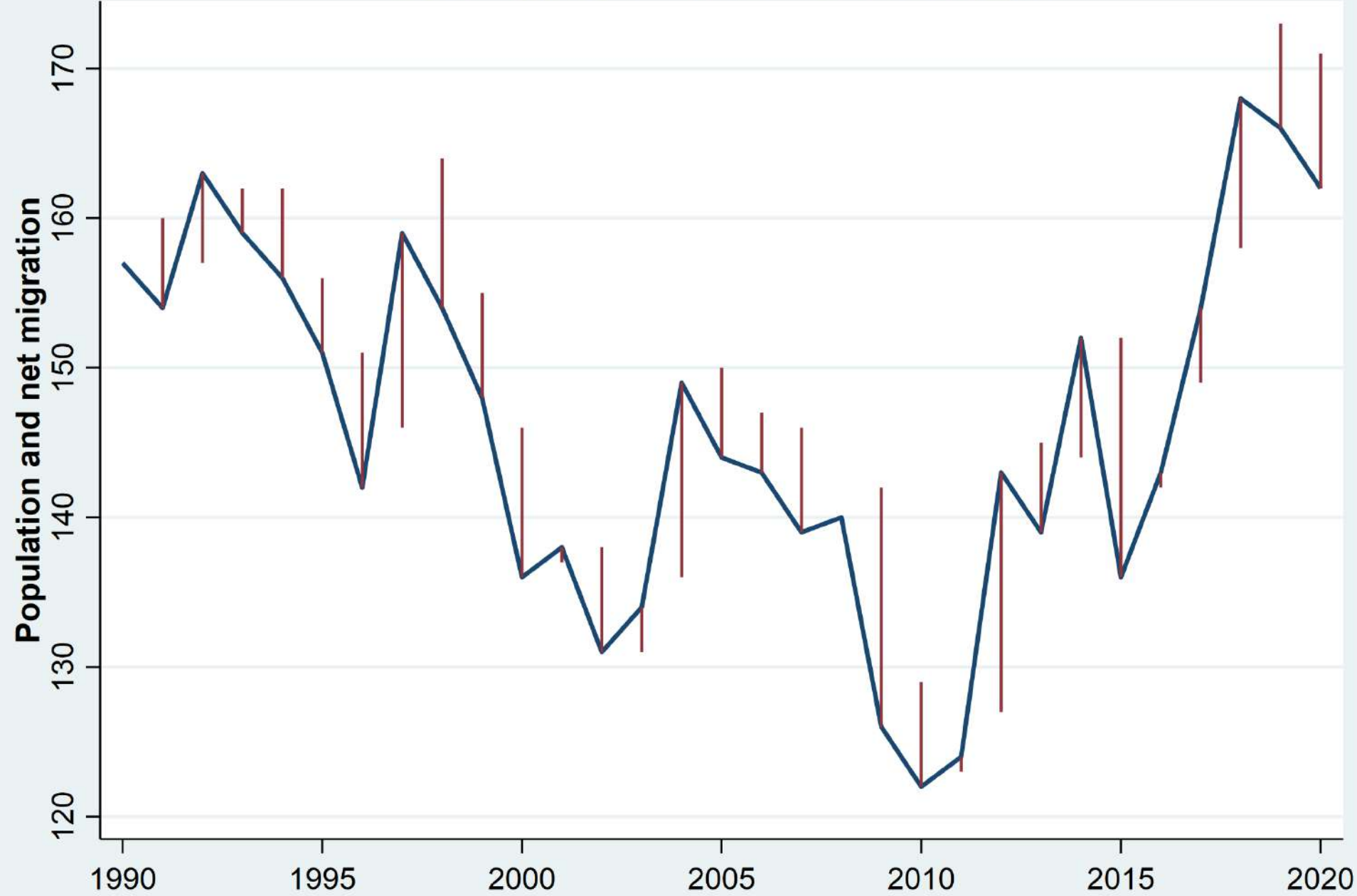
Chevak, Kusilvak Census Area



Chuathbaluk, Bethel Census Area



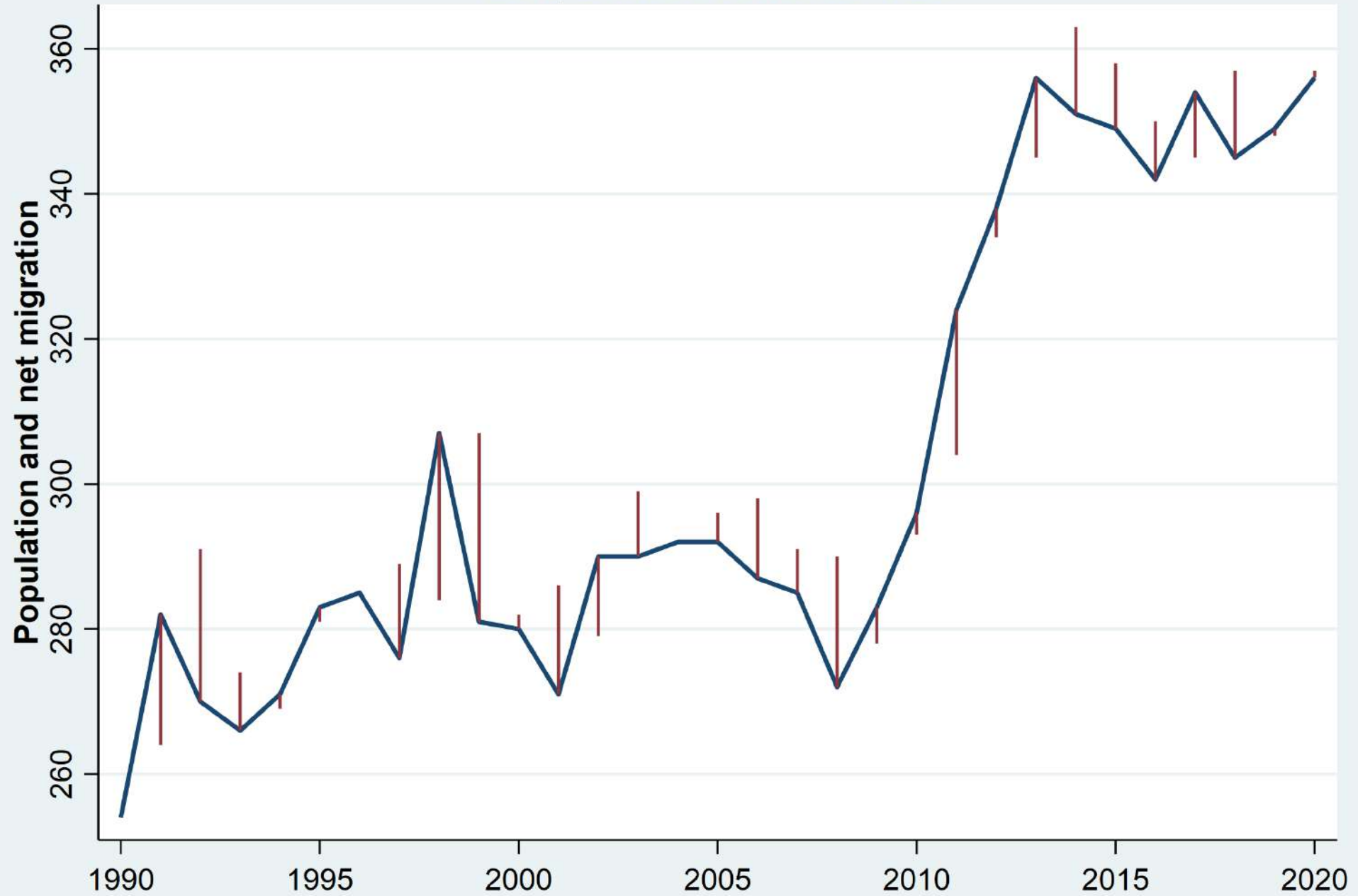
Deering, Northwest Arctic Borough



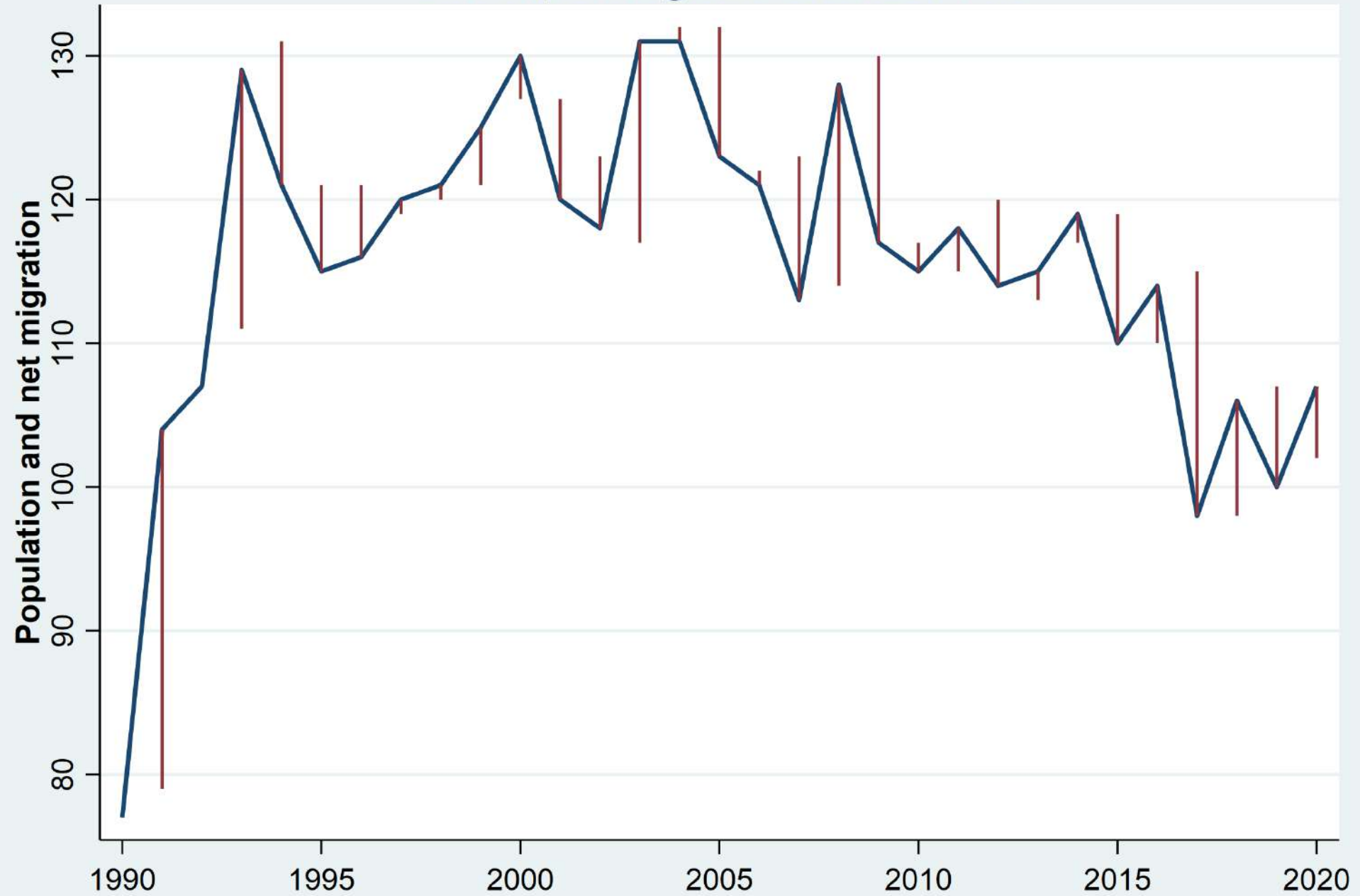
Dillingham, Dillingham Census Area



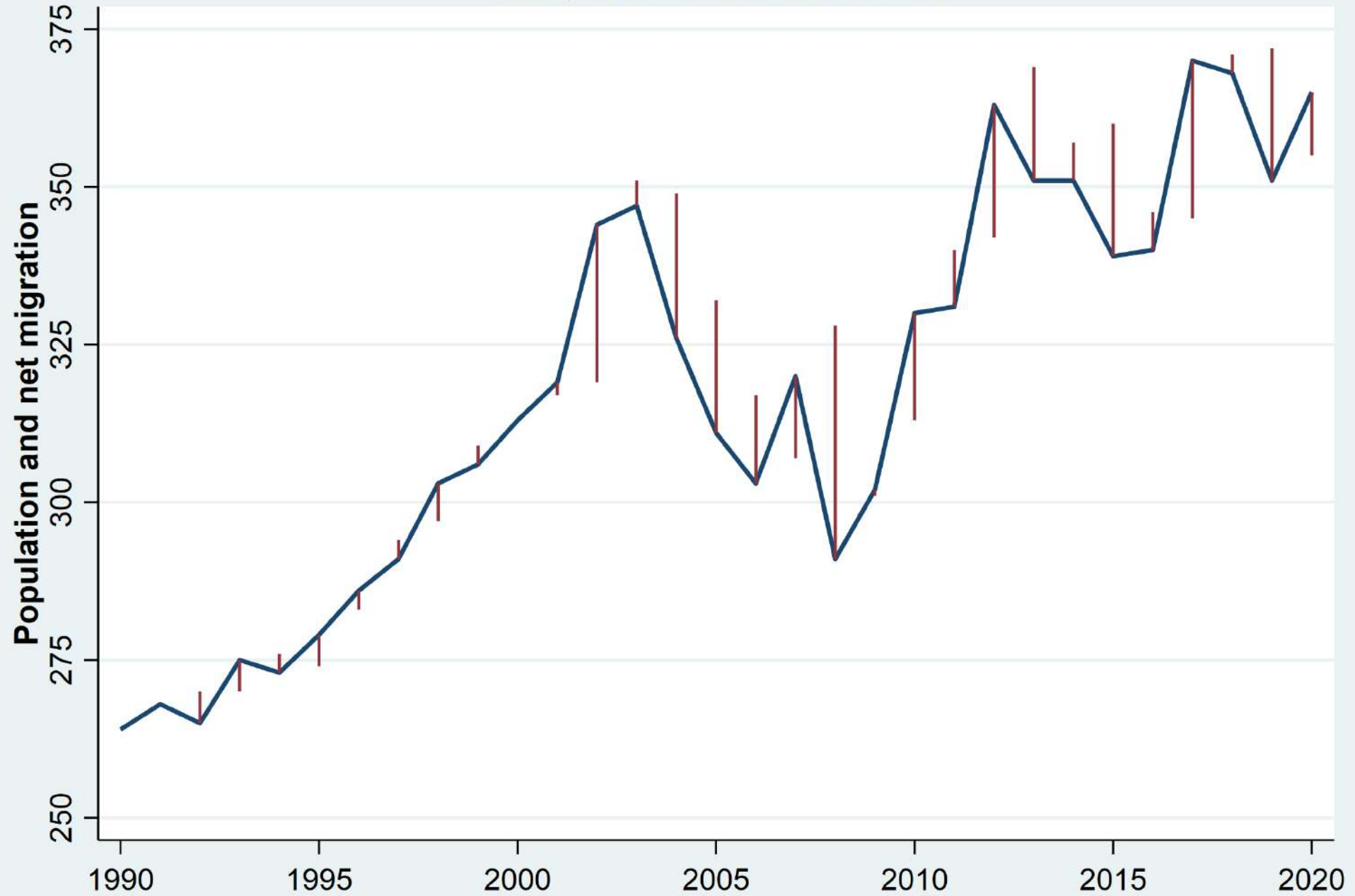
Eek, Bethel Census Area



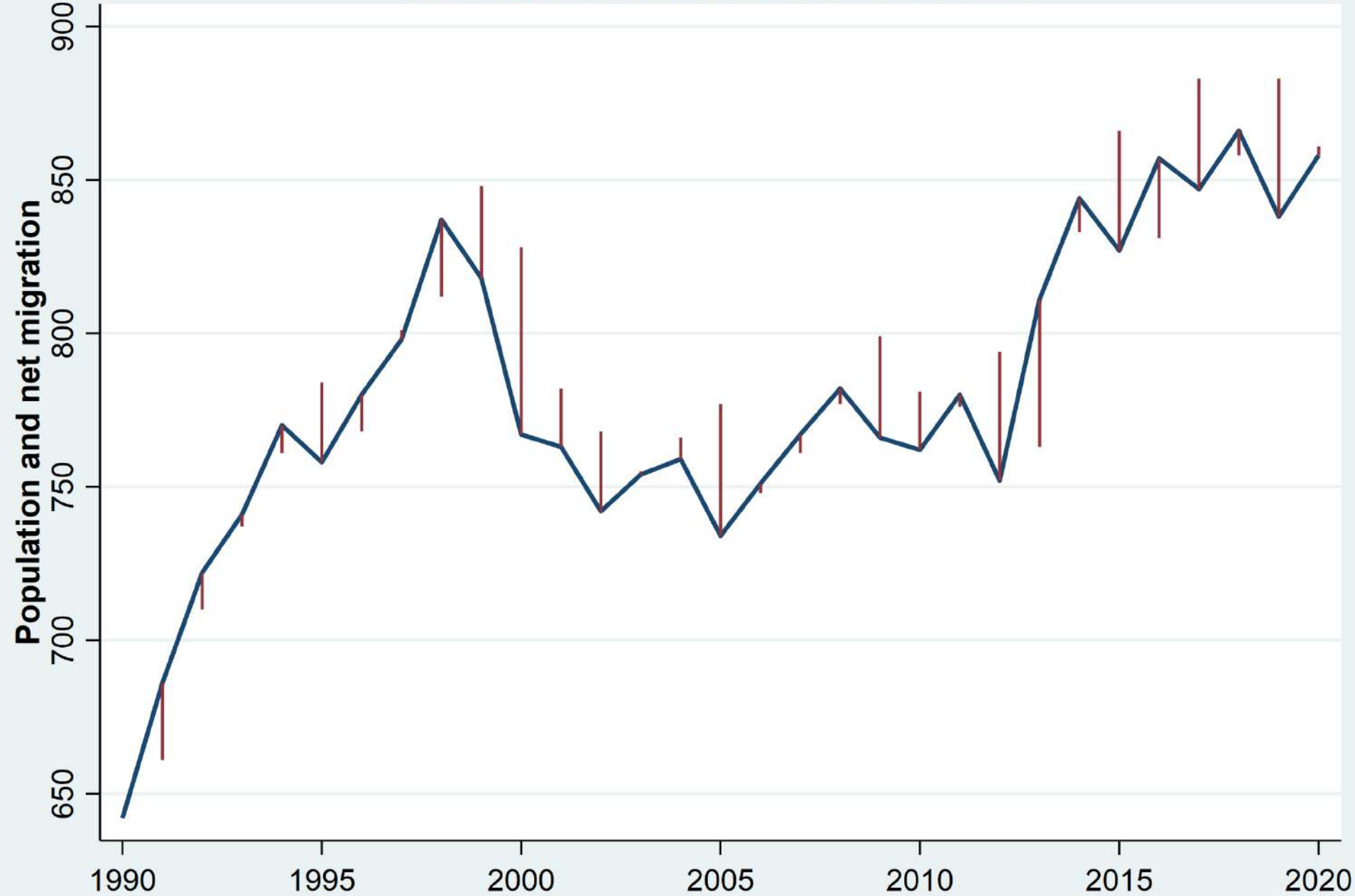
Ekwok, Dillingham Census Area



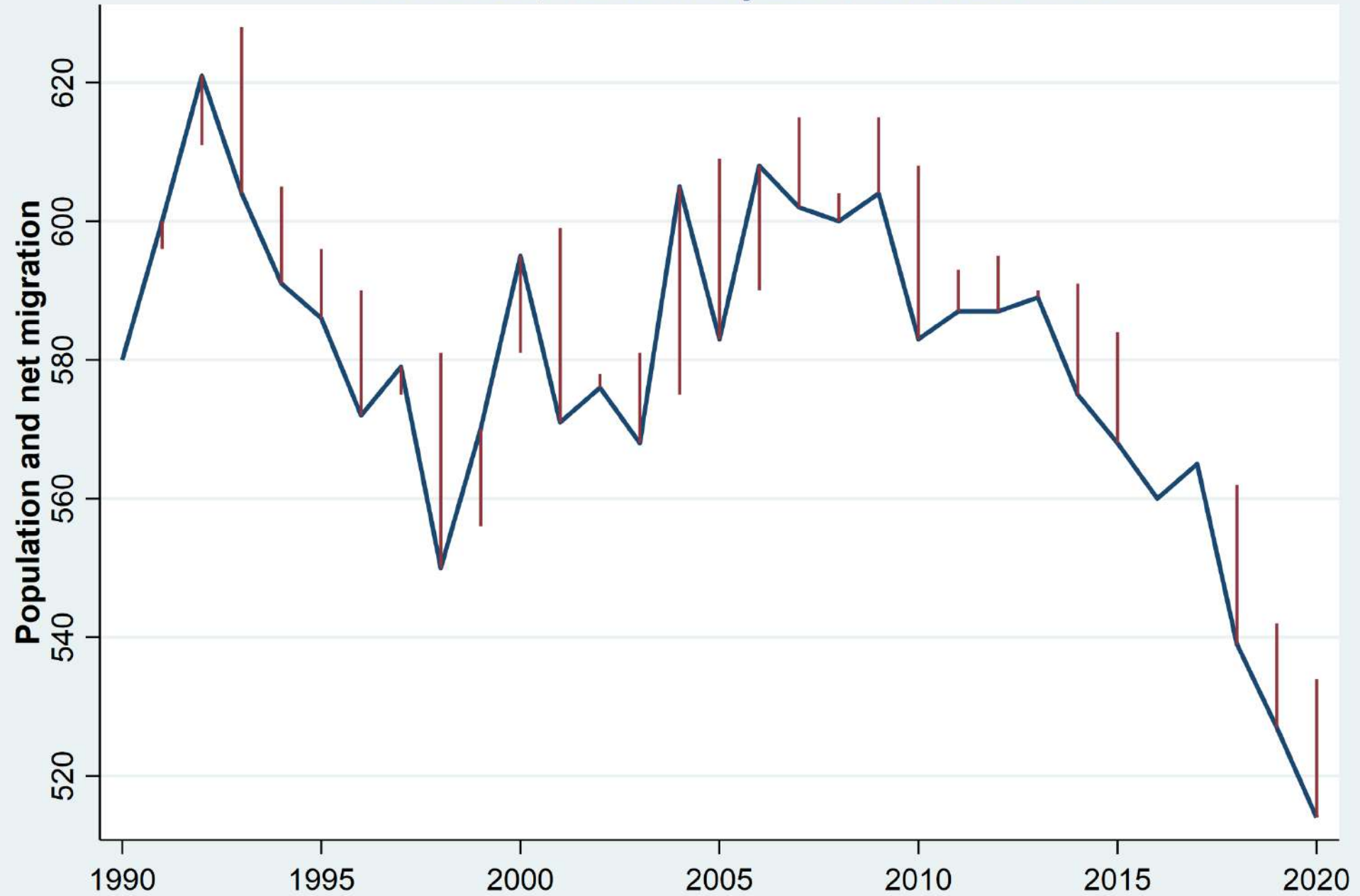
Elim, Nome Census Area



Emmonak, Kusilvak Census Area



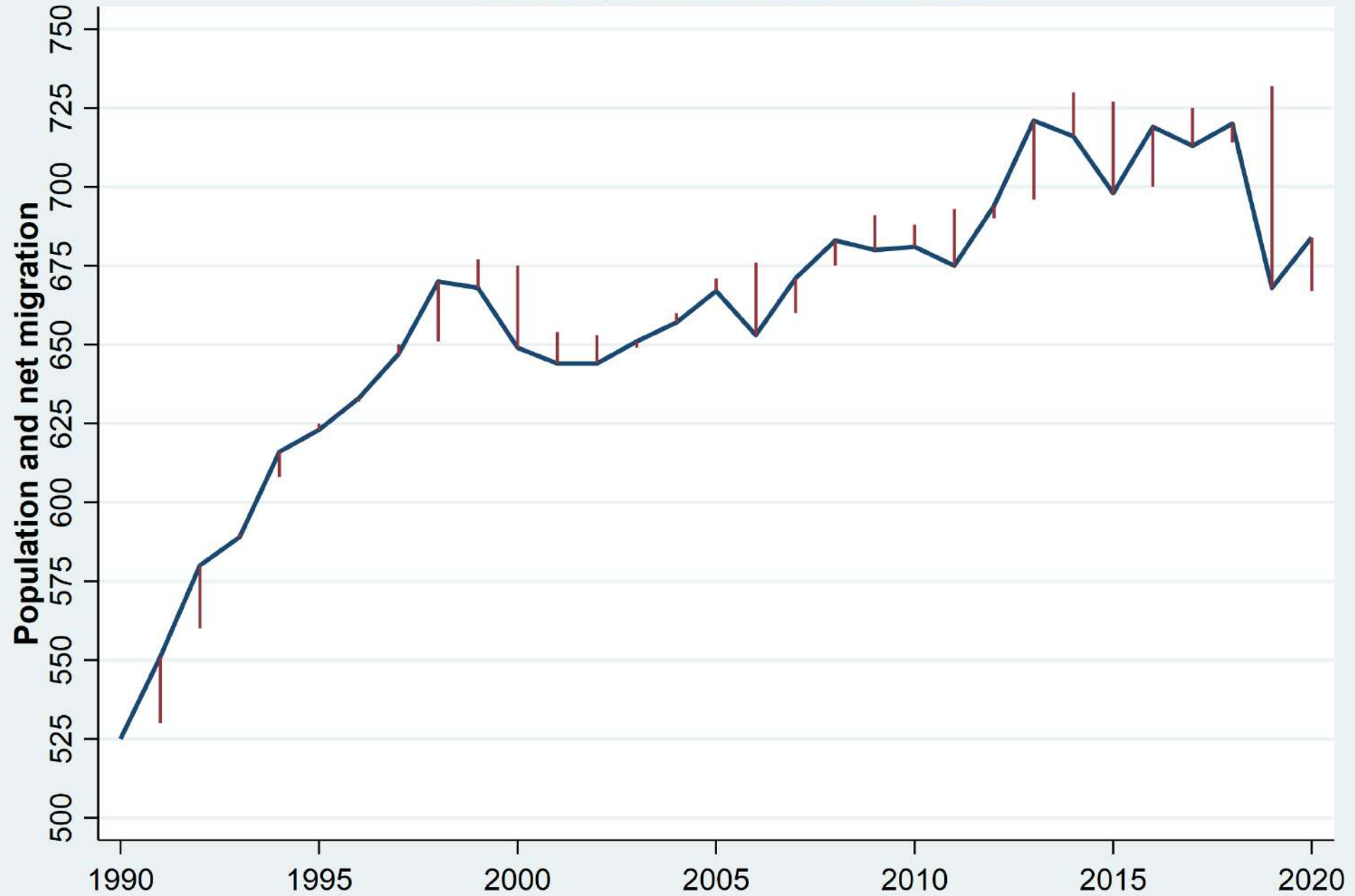
Fort Yukon, Yukon Koyukuk Census Area



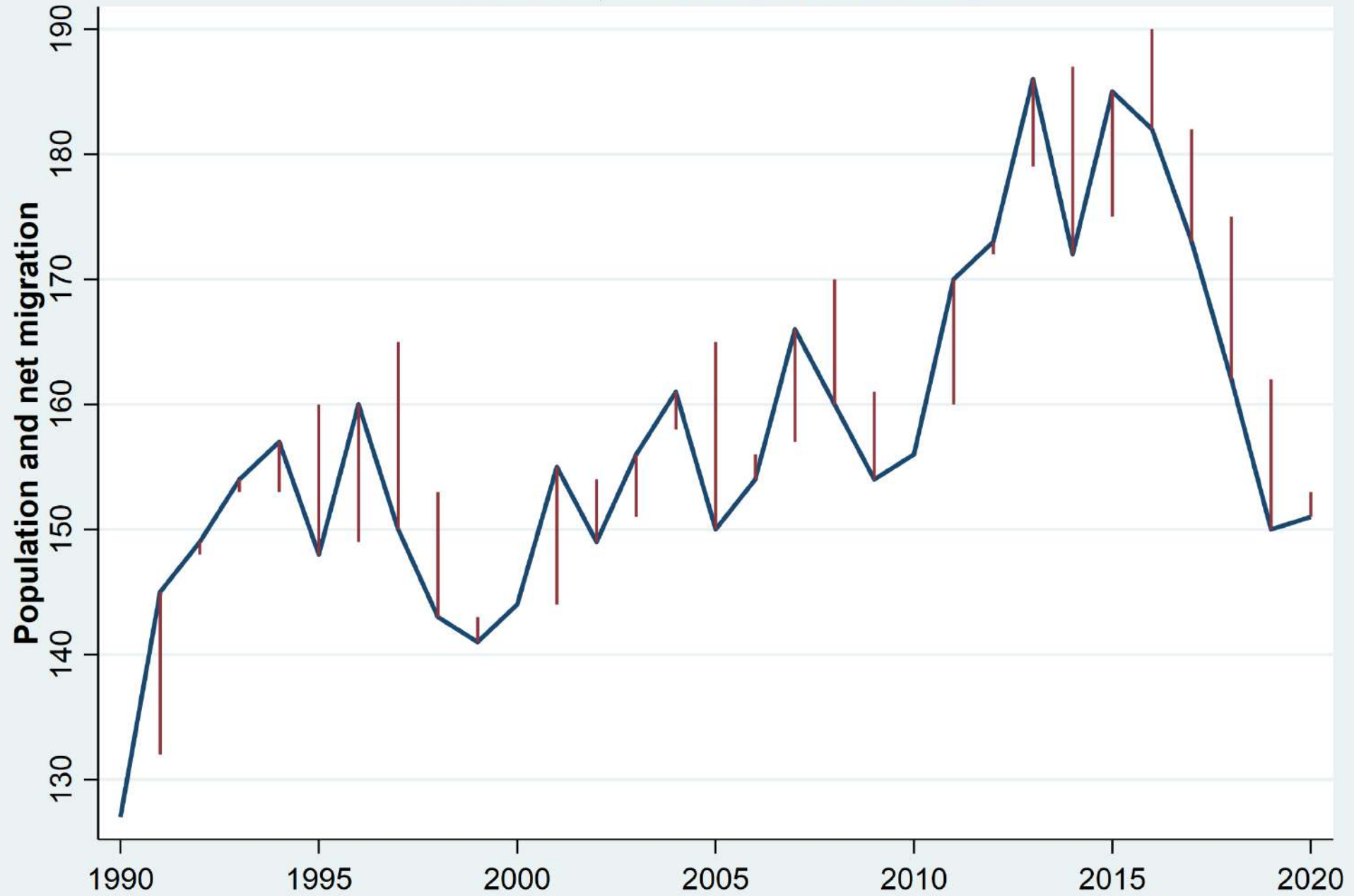
Galena, Yukon Koyukuk Census Area



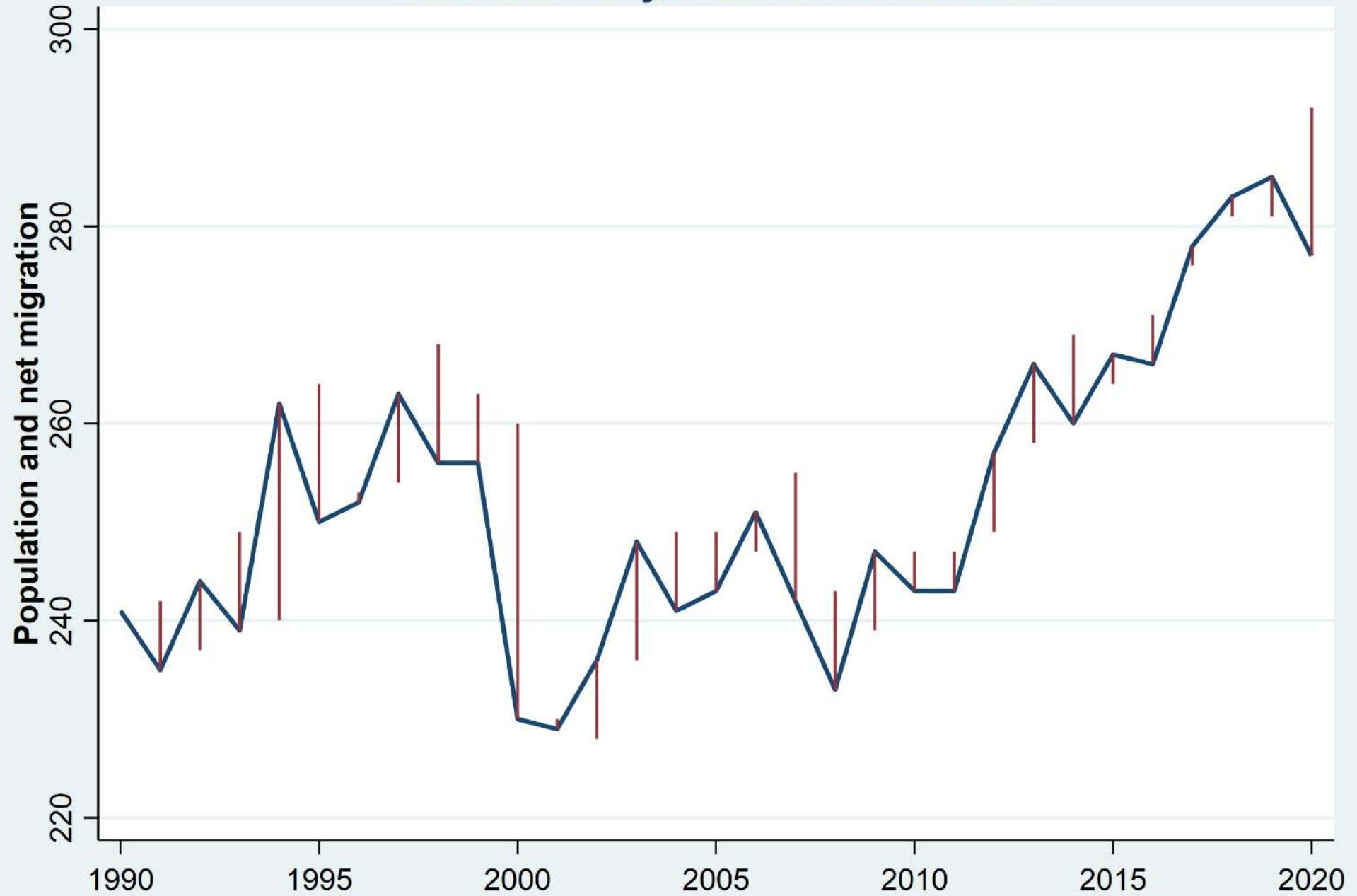
Gambell, Nome Census Area



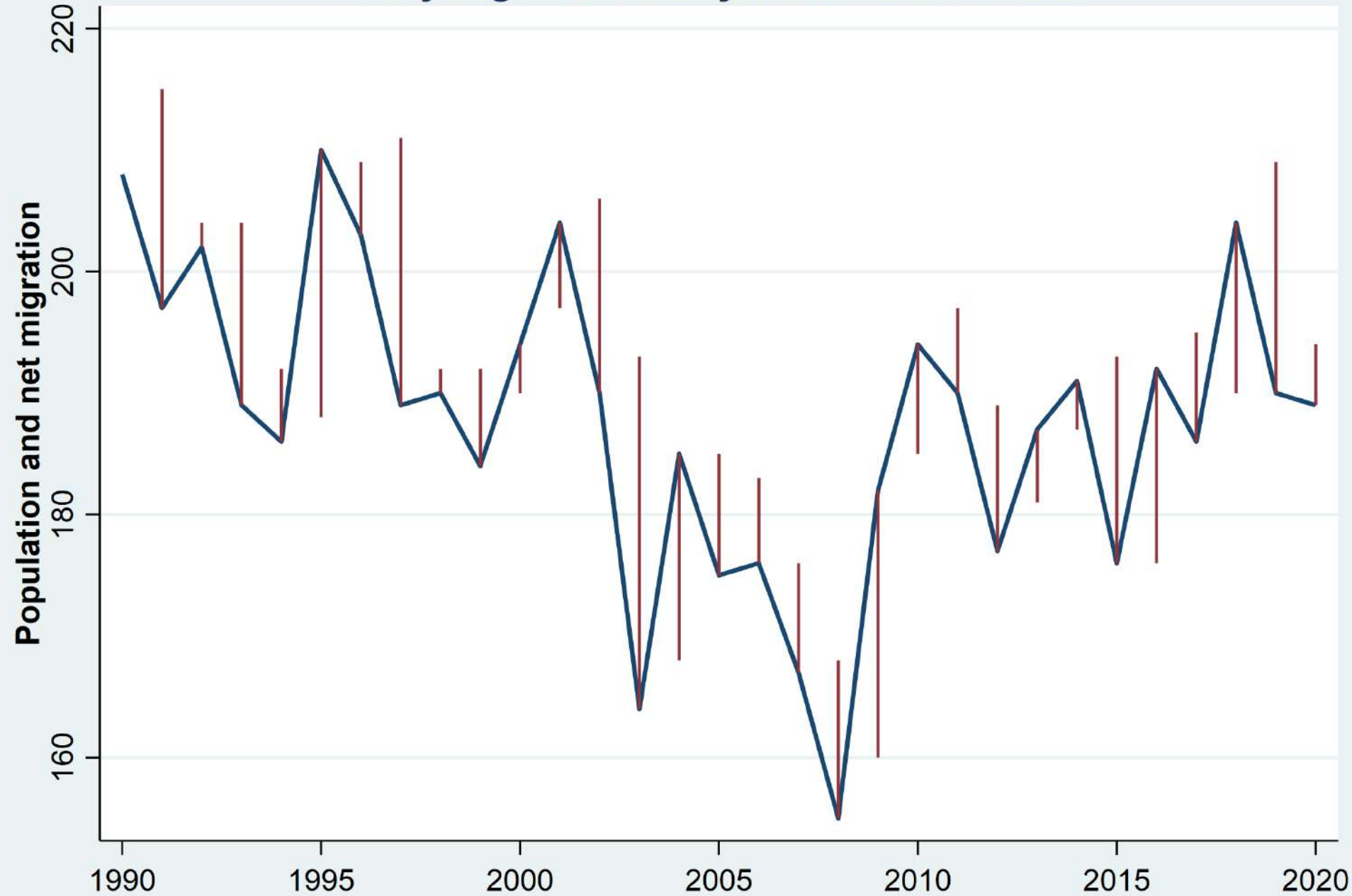
Golovin, Nome Census Area



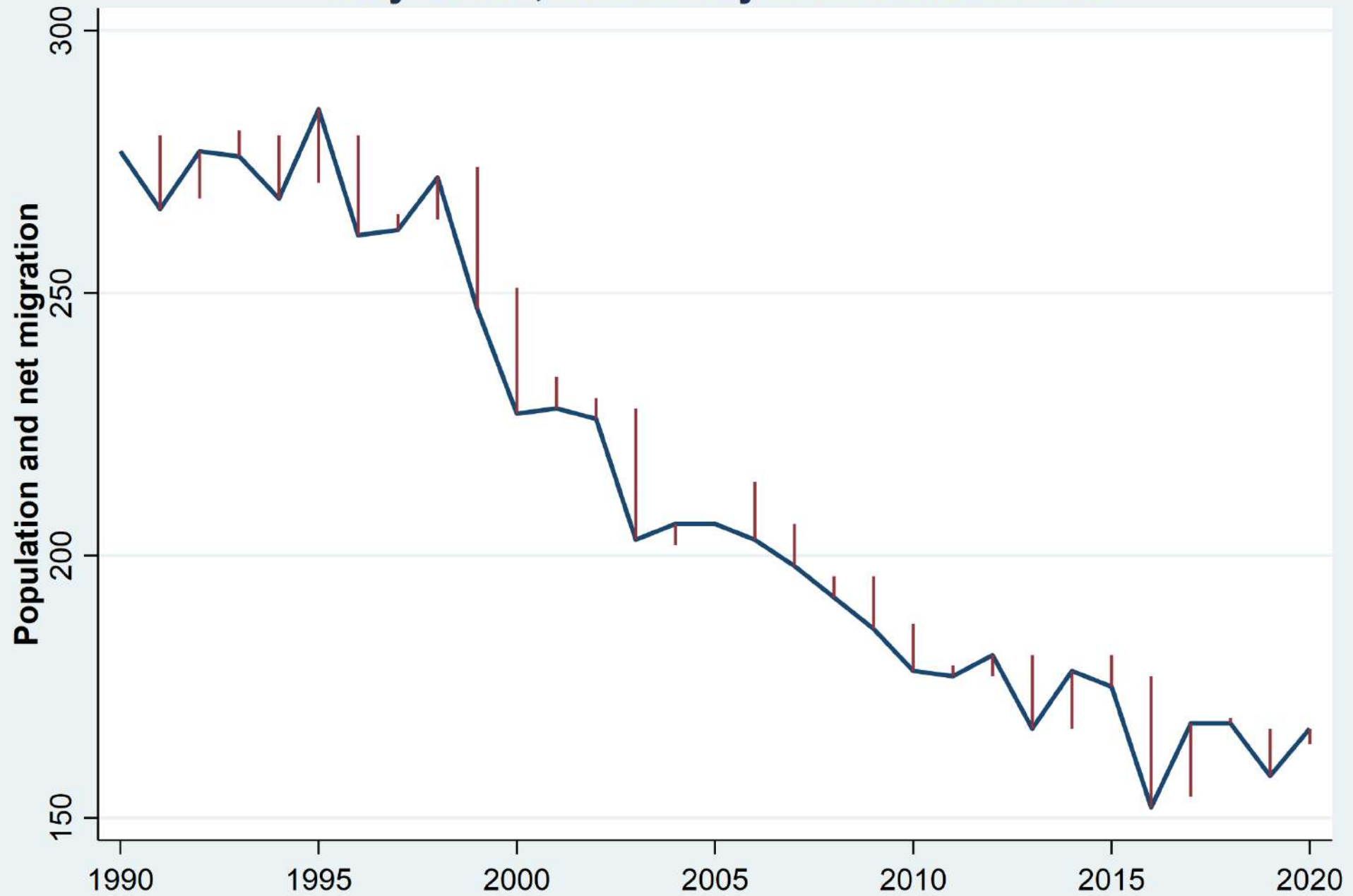
Goodnews Bay, Bethel Census Area



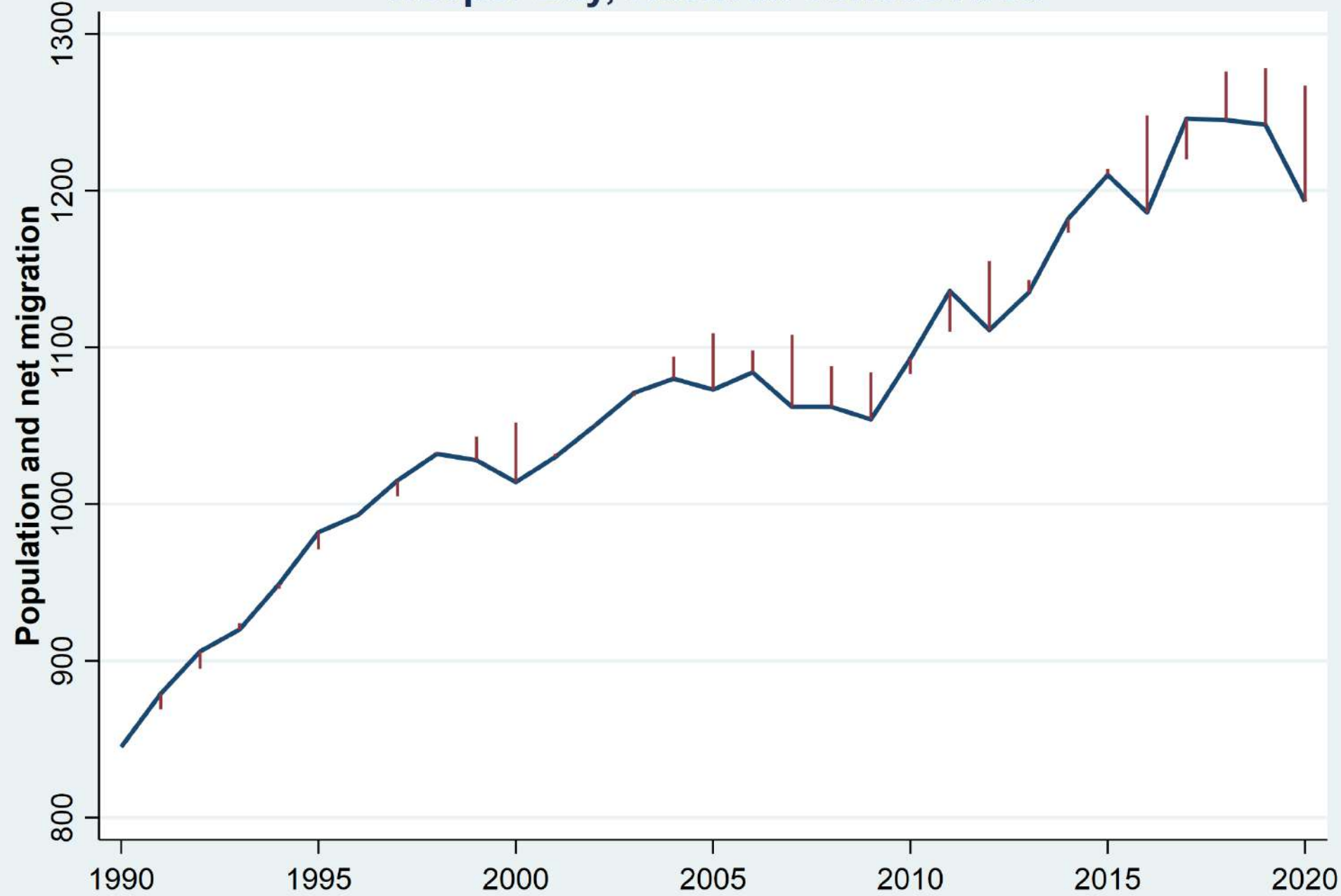
Grayling, Yukon Koyukuk Census Area



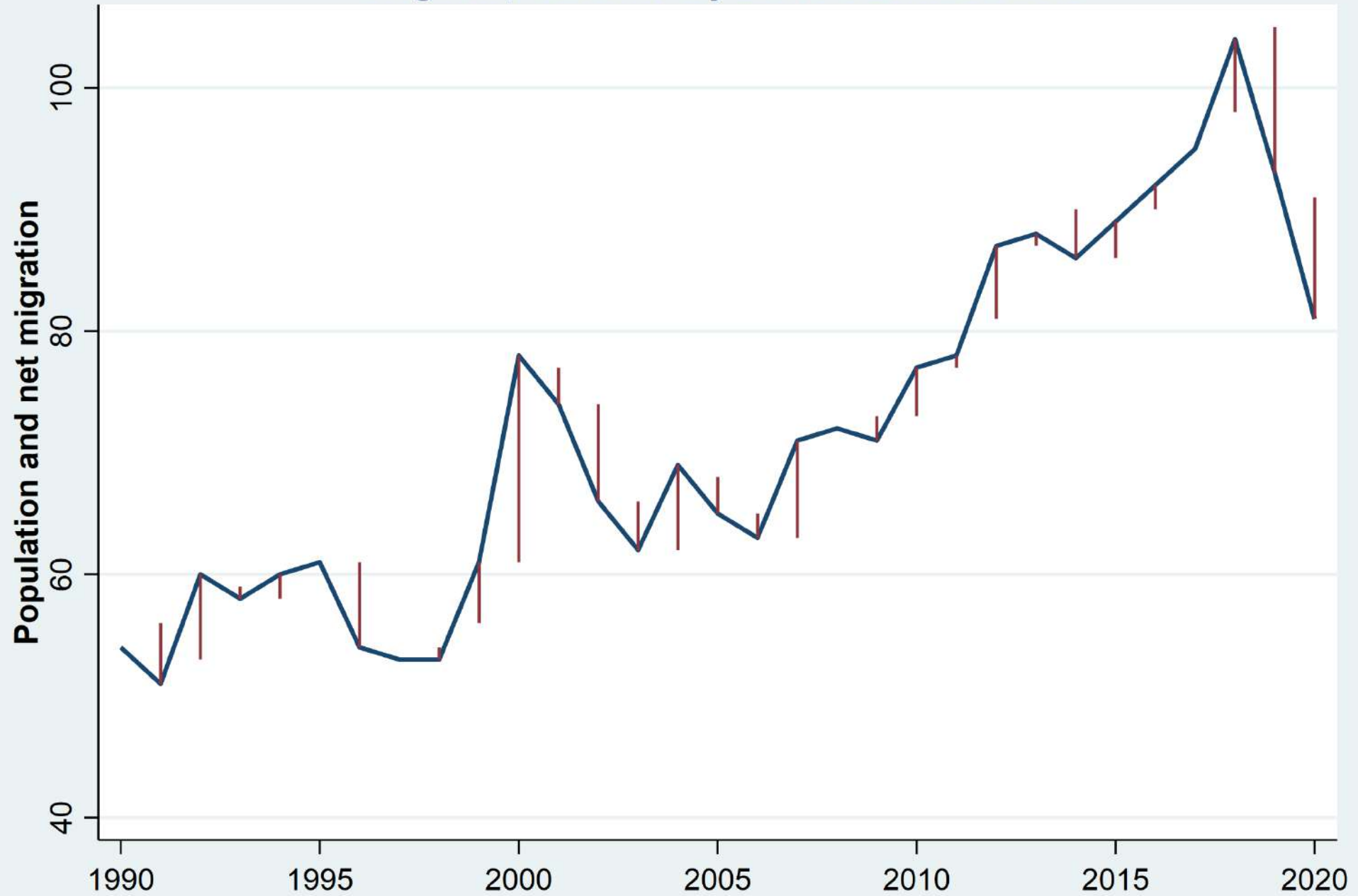
Holy Cross, Yukon Koyukuk Census Area



Hooper Bay, Kusilvak Census Area



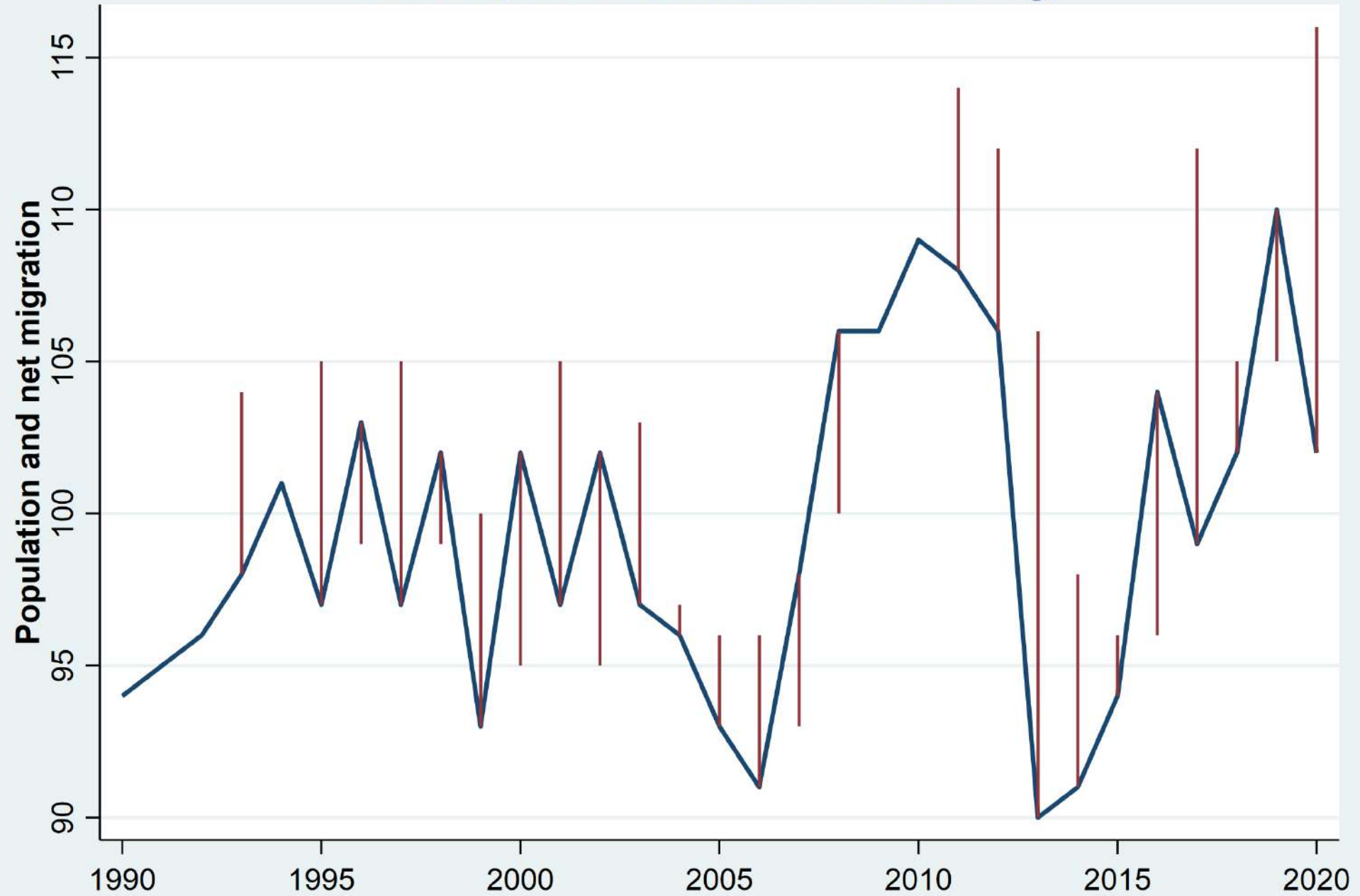
Hughes, Yukon Koyukuk Census Area



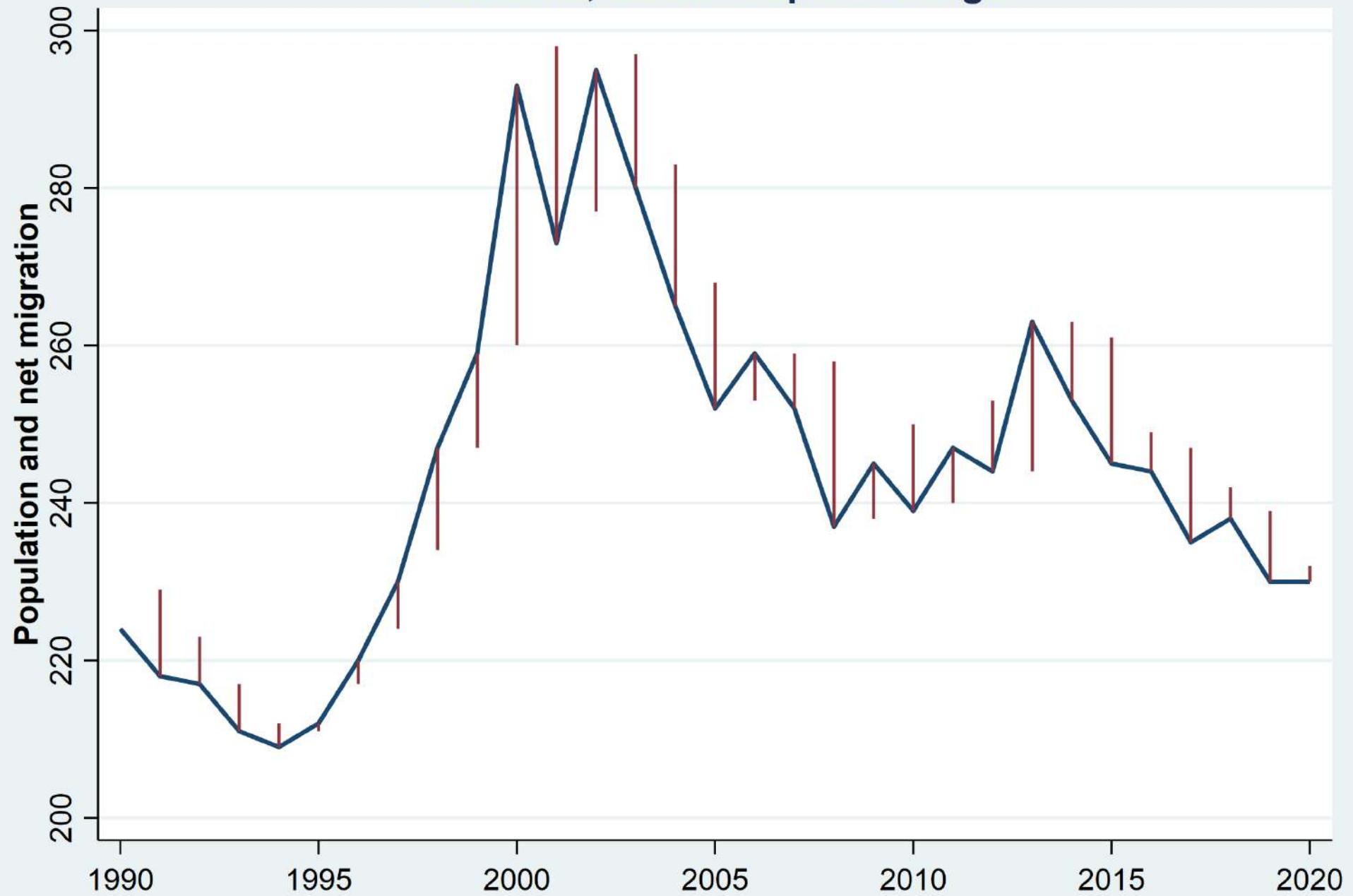
Huslia, Yukon Koyukuk Census Area



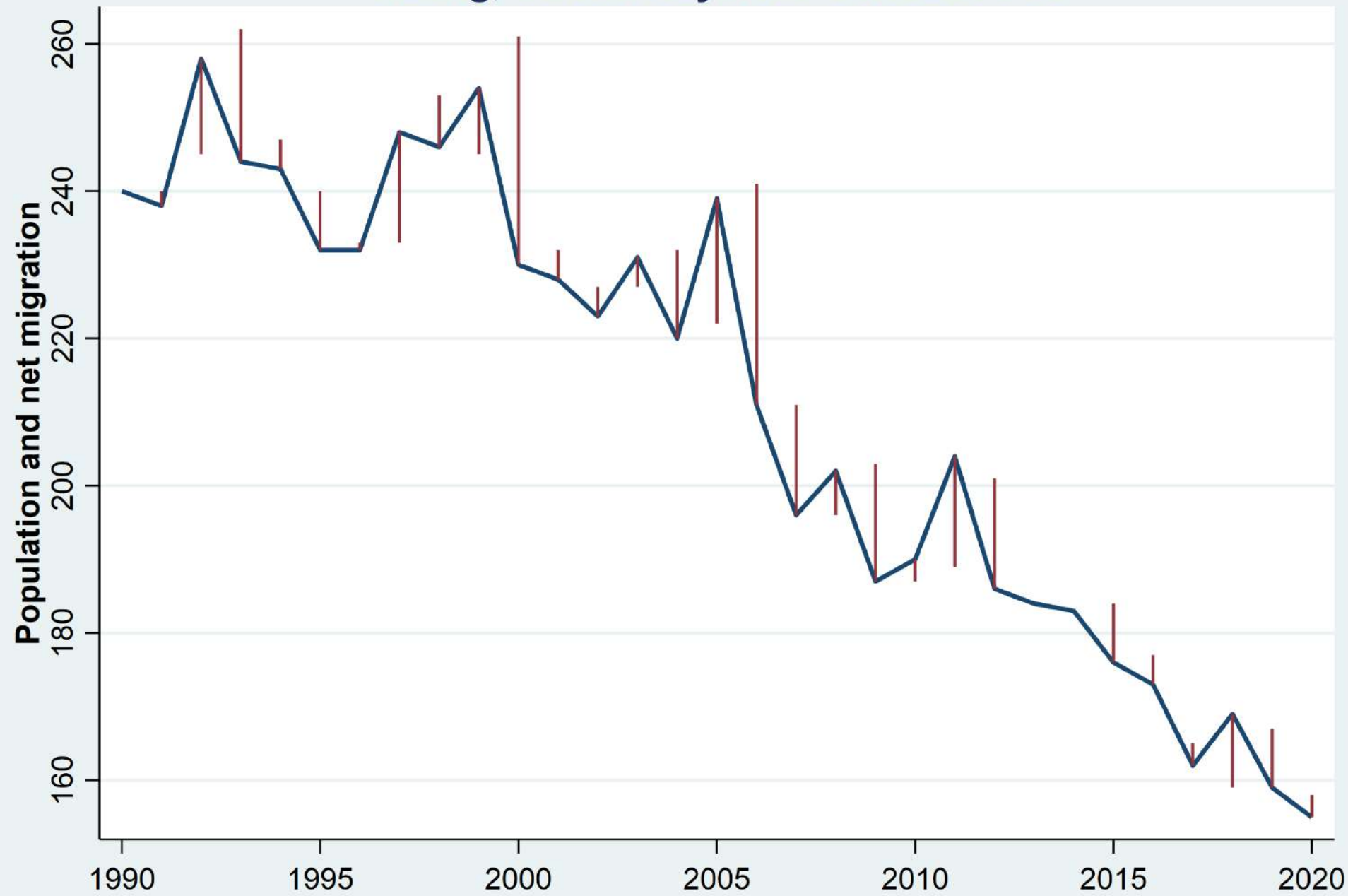
Iliamna, Lake and Peninsula Borough



Kaktovik, North Slope Borough



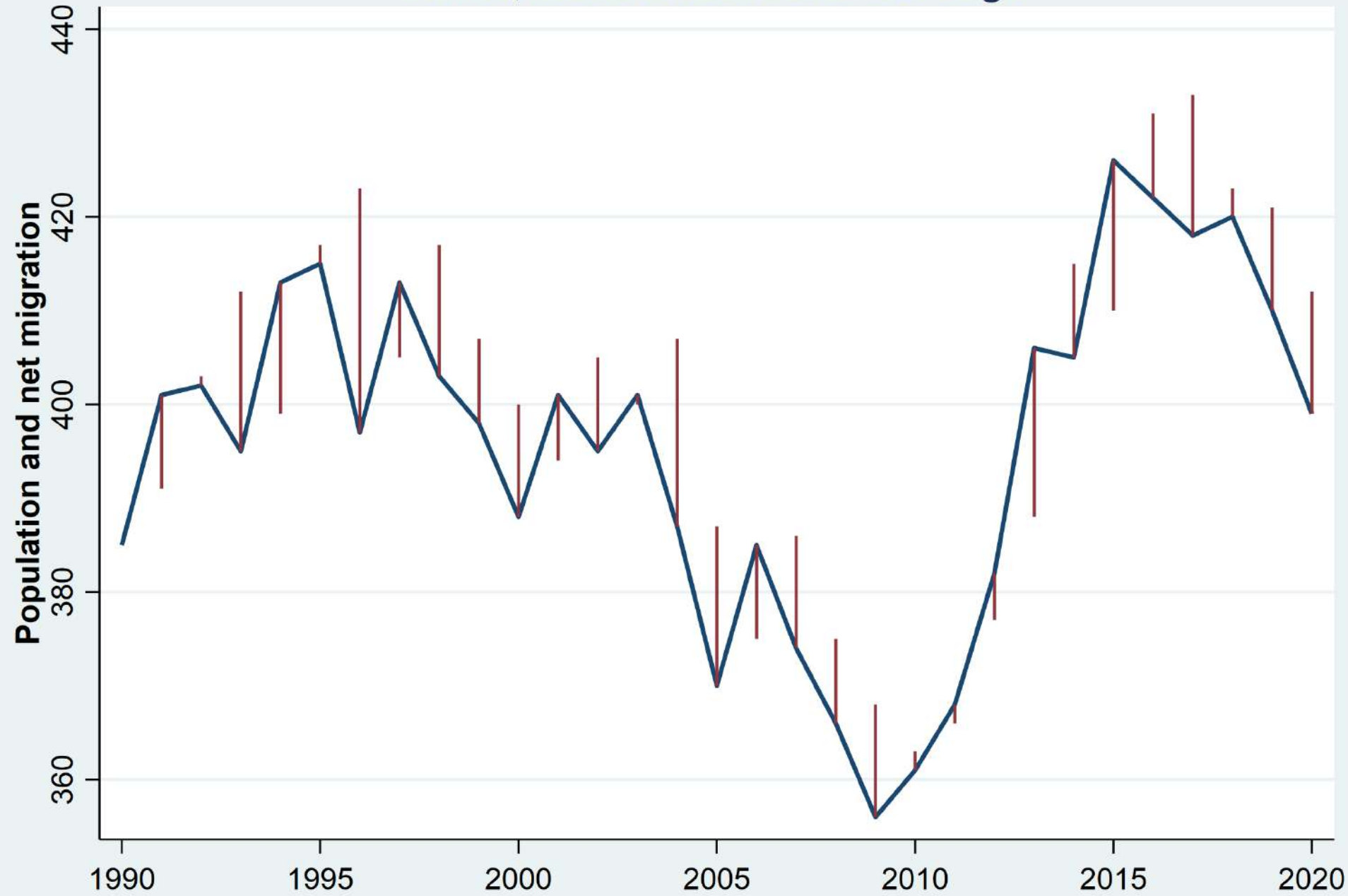
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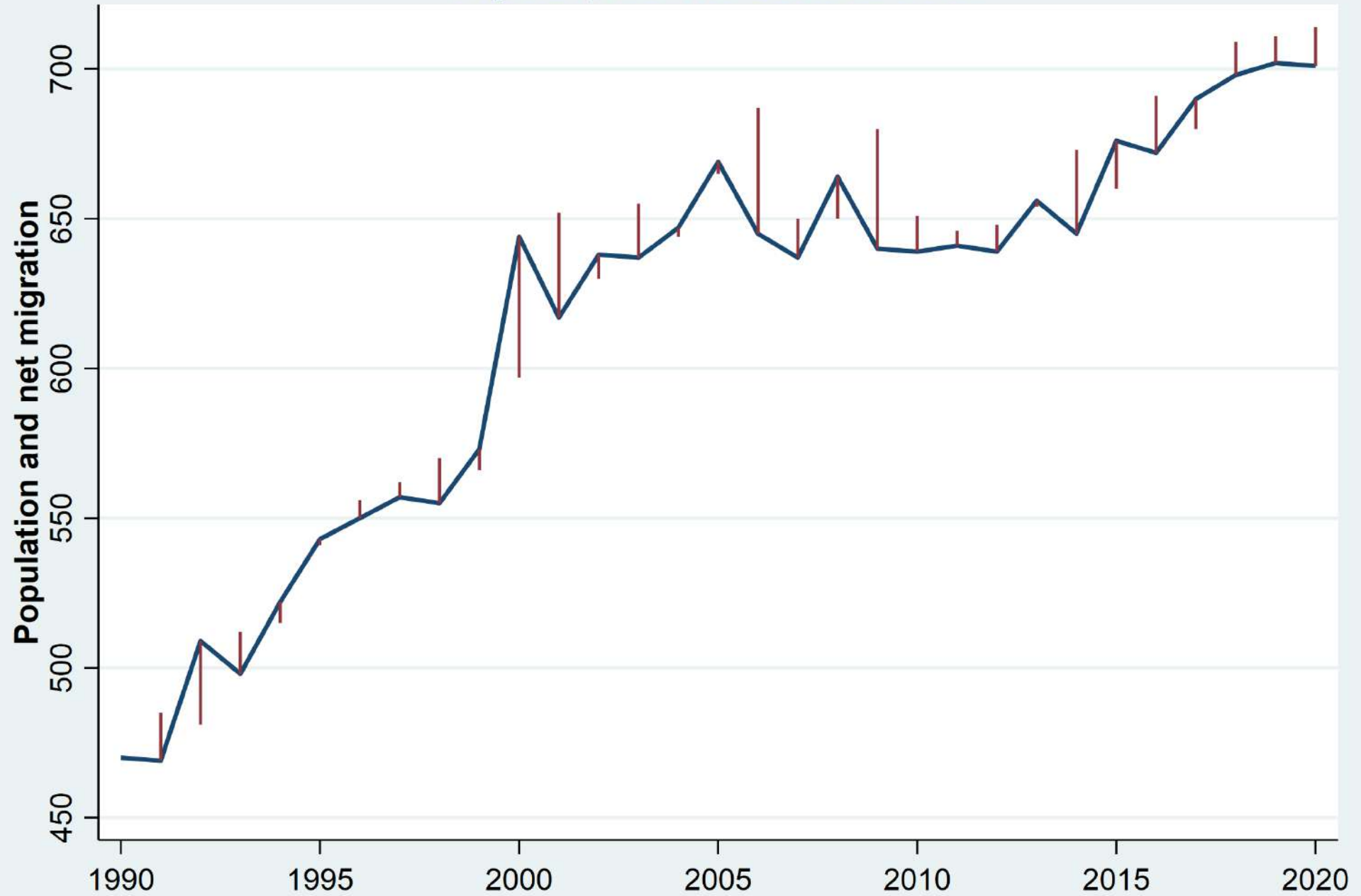
Kasigluk, Bethel Census Area



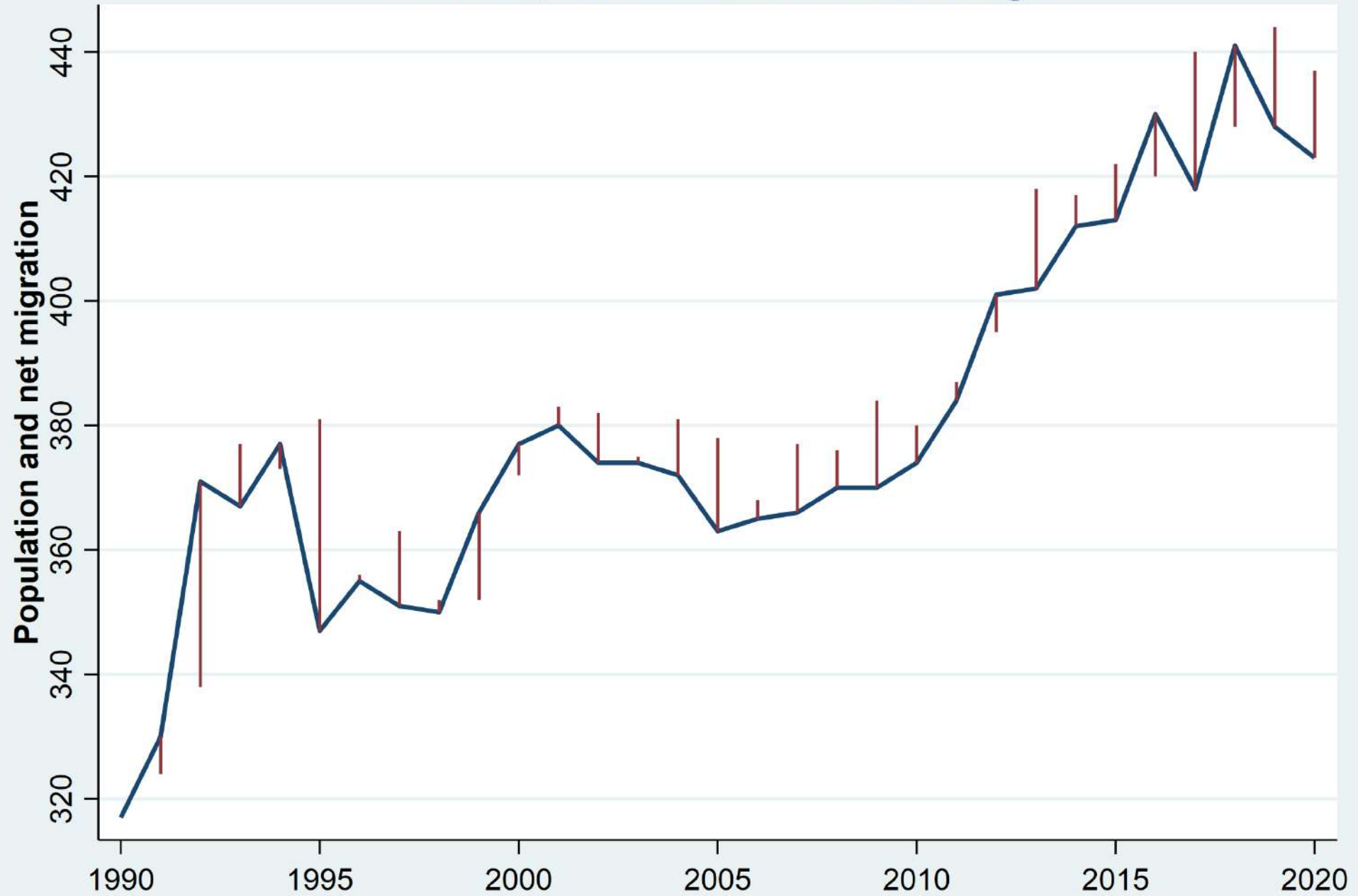
Kiana, Northwest Arctic Borough



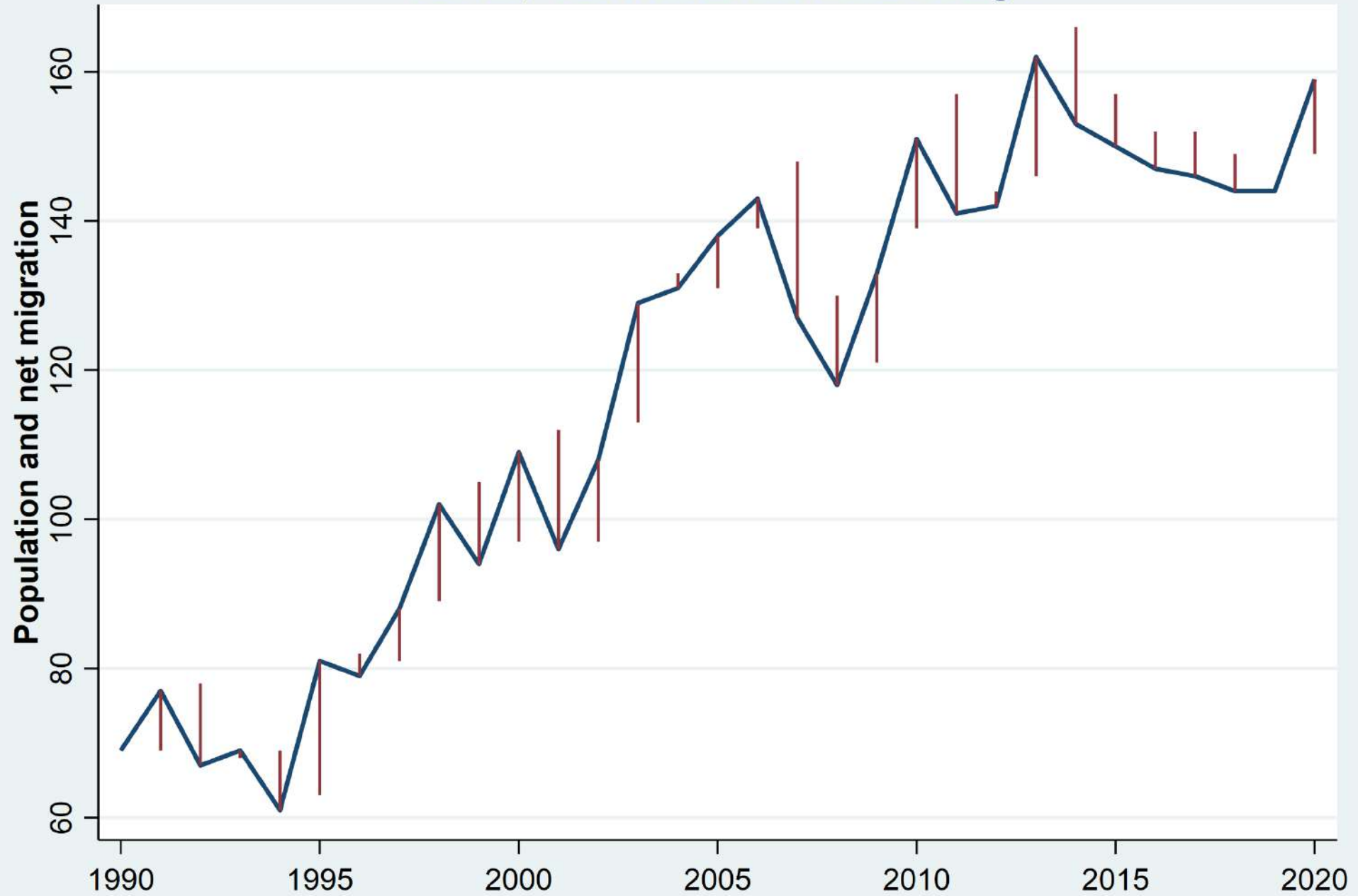
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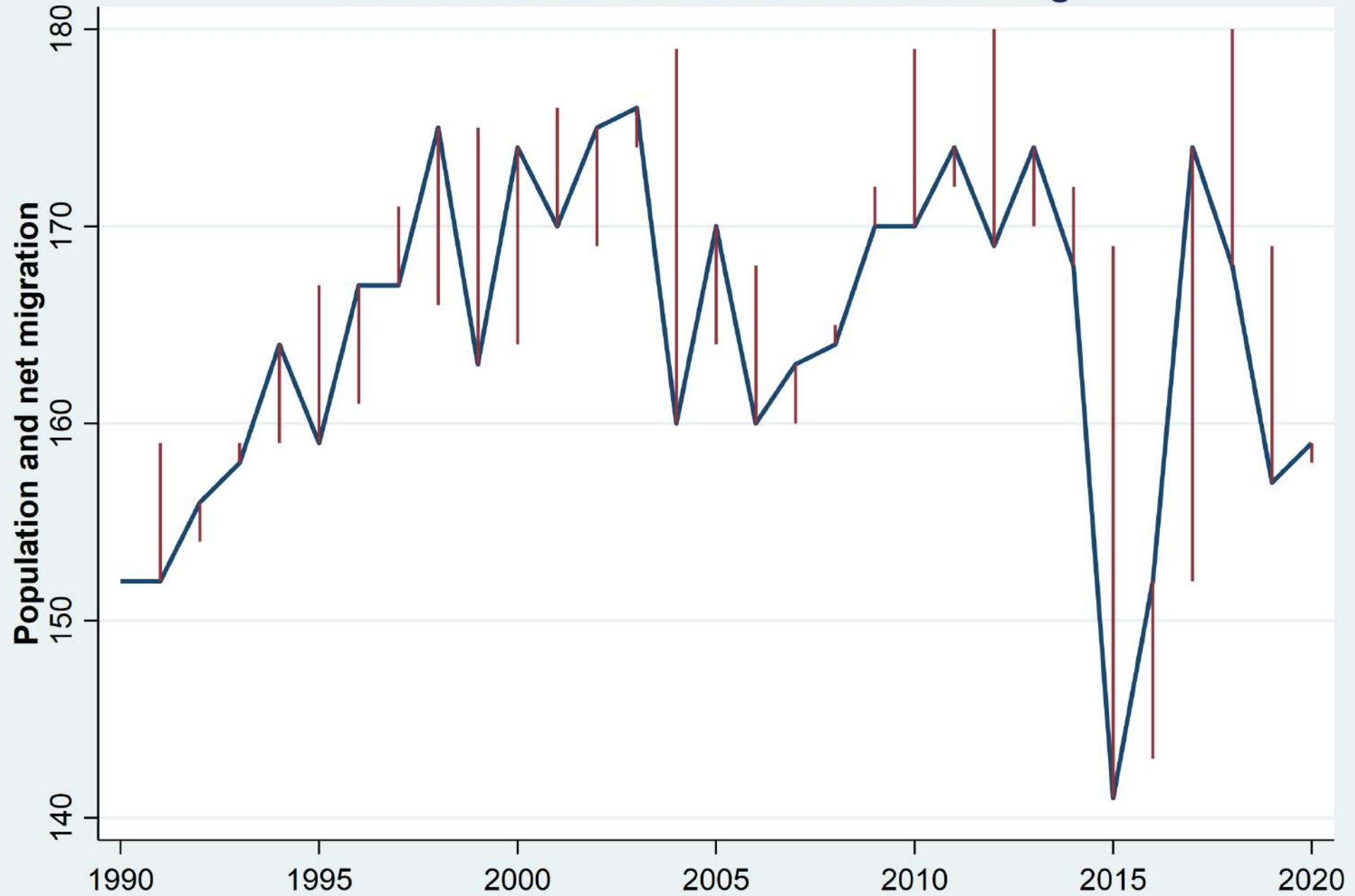
Kivalina, Northwest Arctic Borough



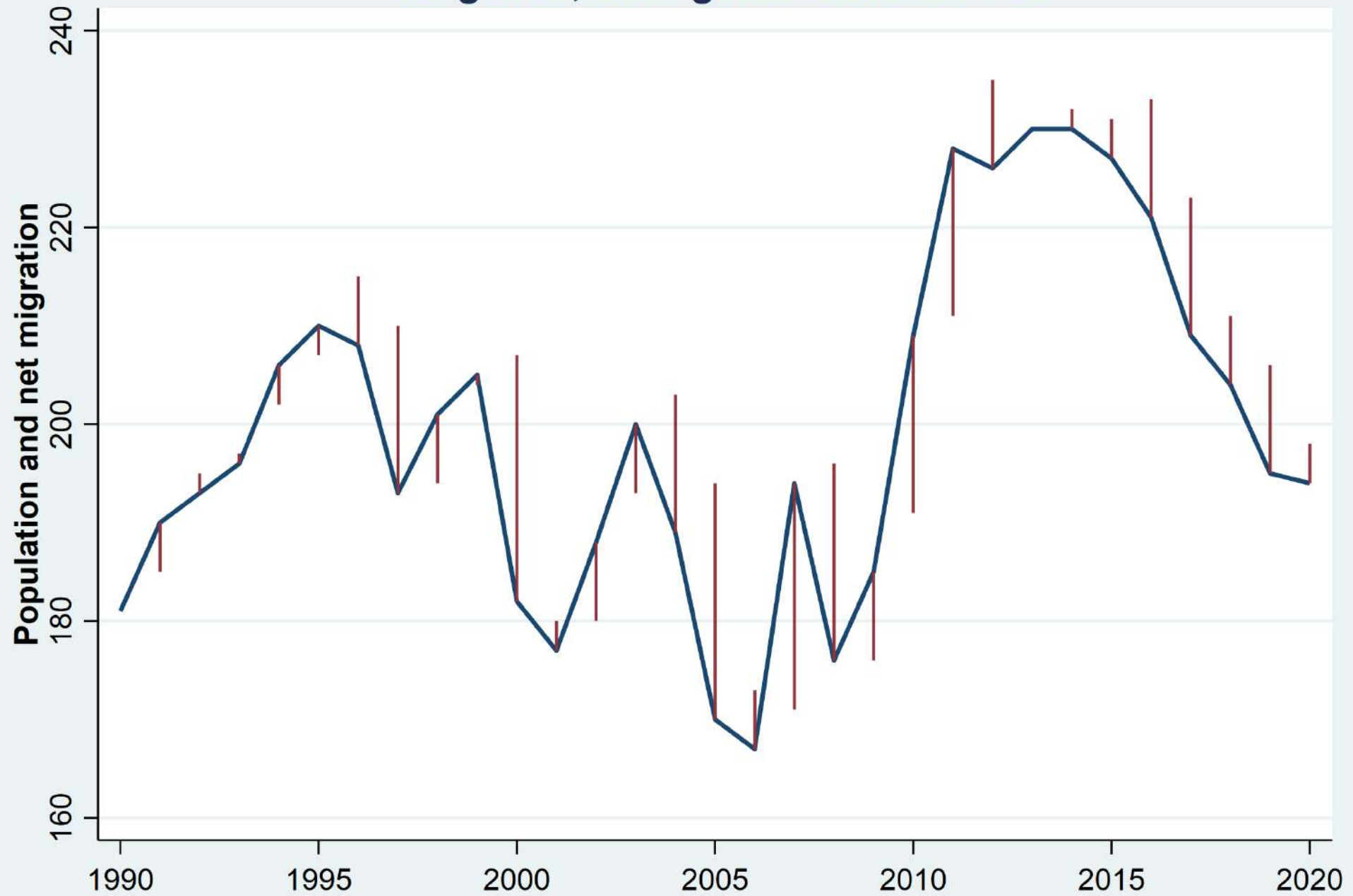
Kobuk, Northwest Arctic Borough



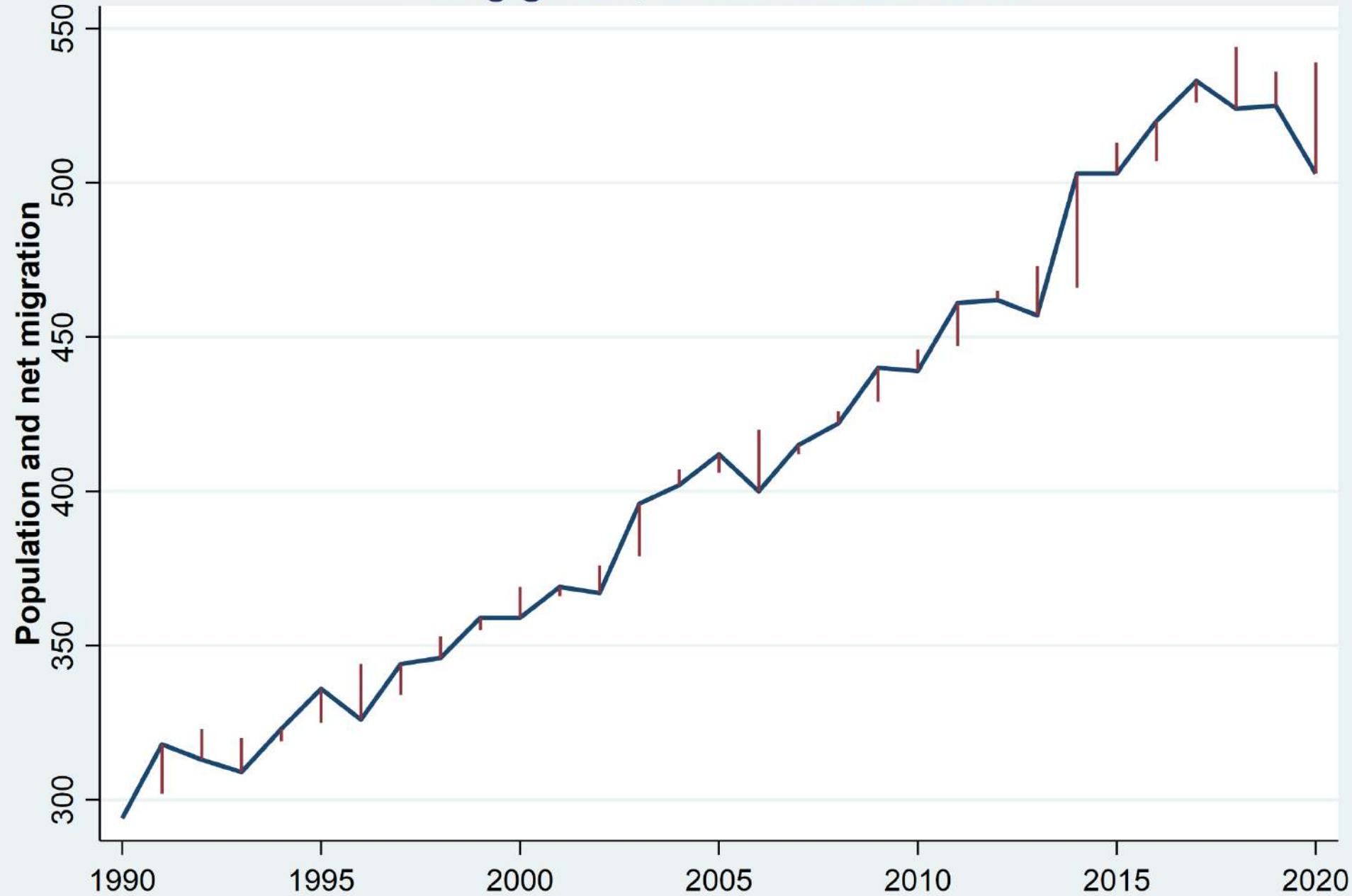
Kokhanok, Lake and Peninsula Borough



Koliganek, Dillingham Census Area



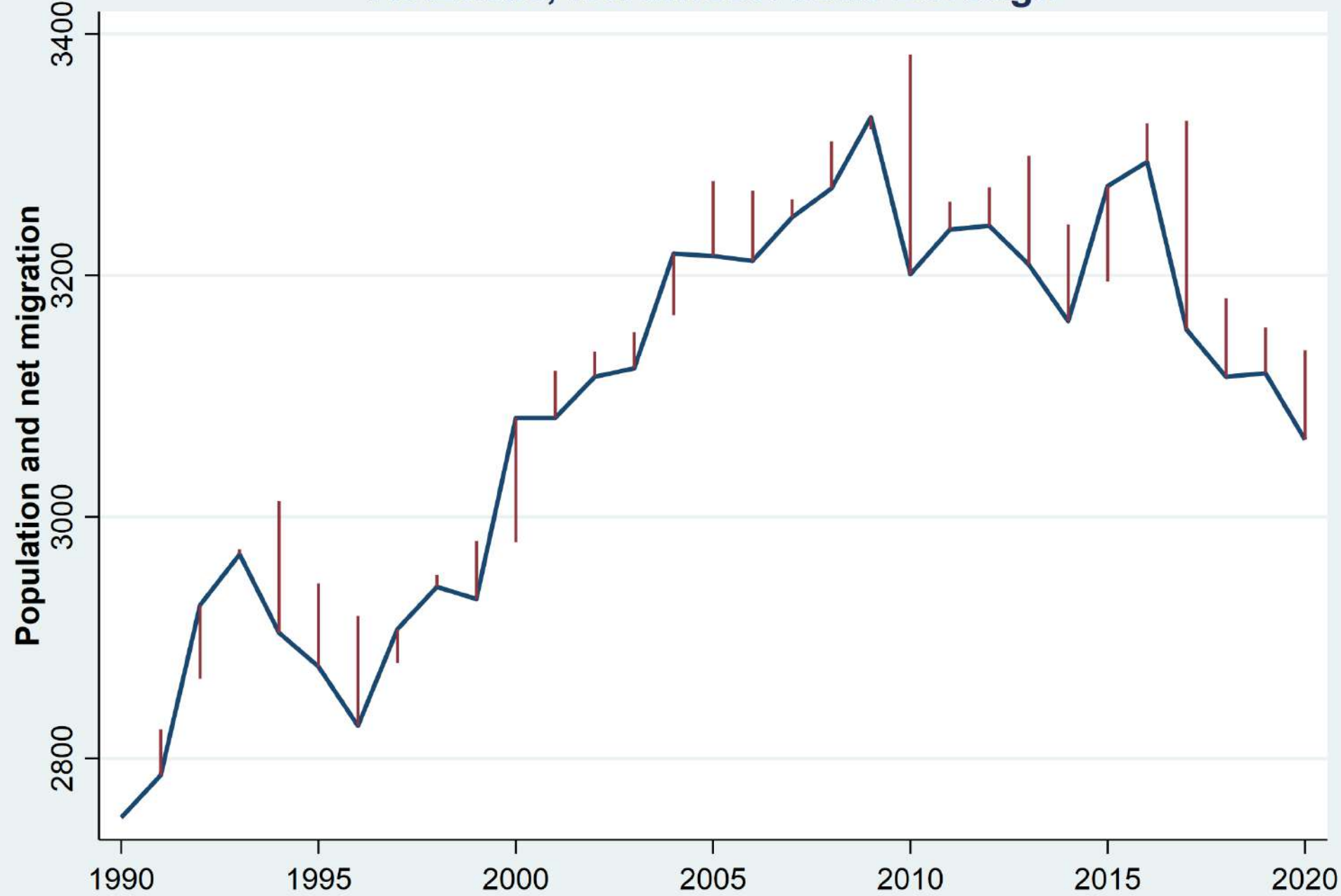
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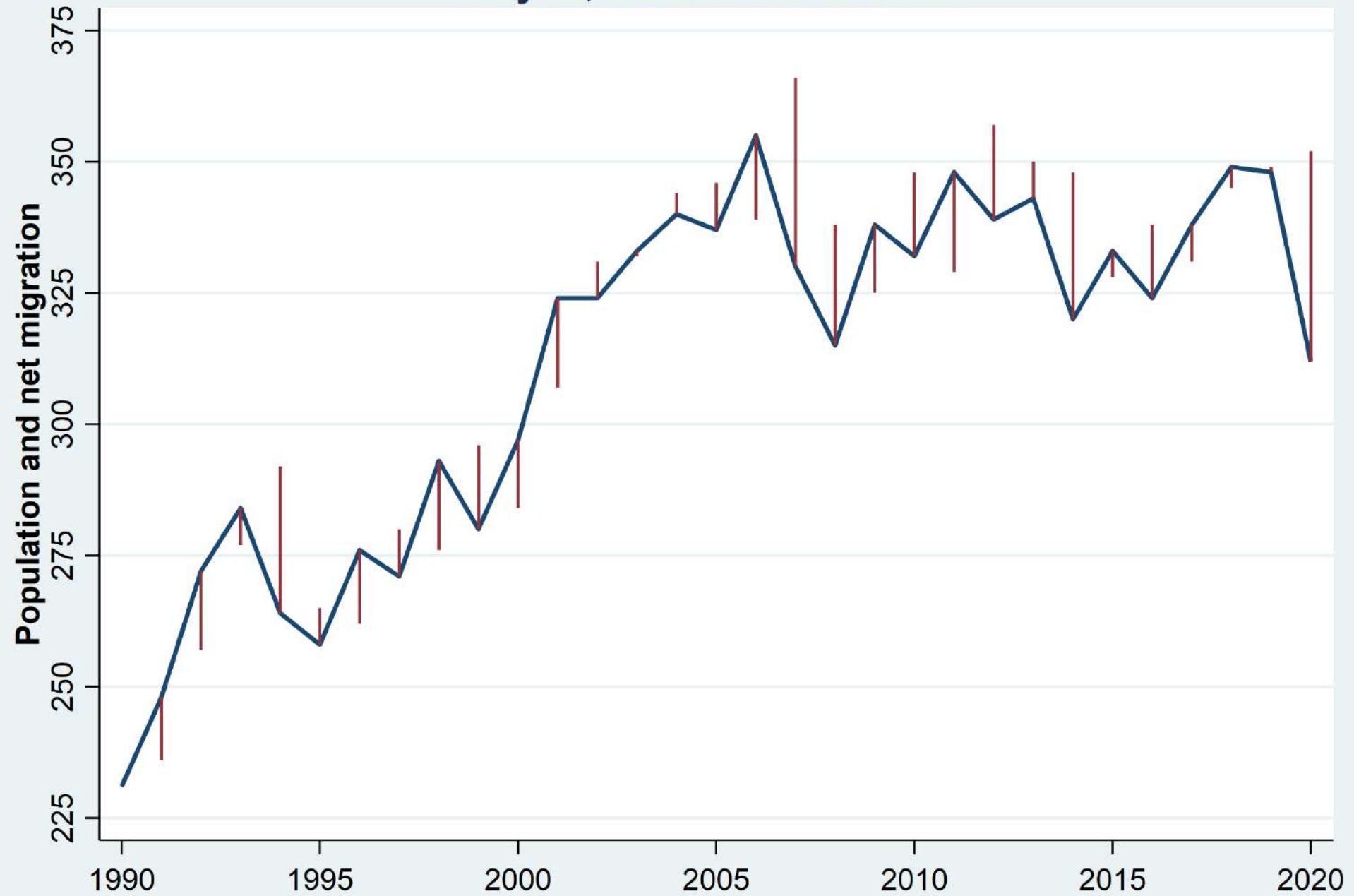
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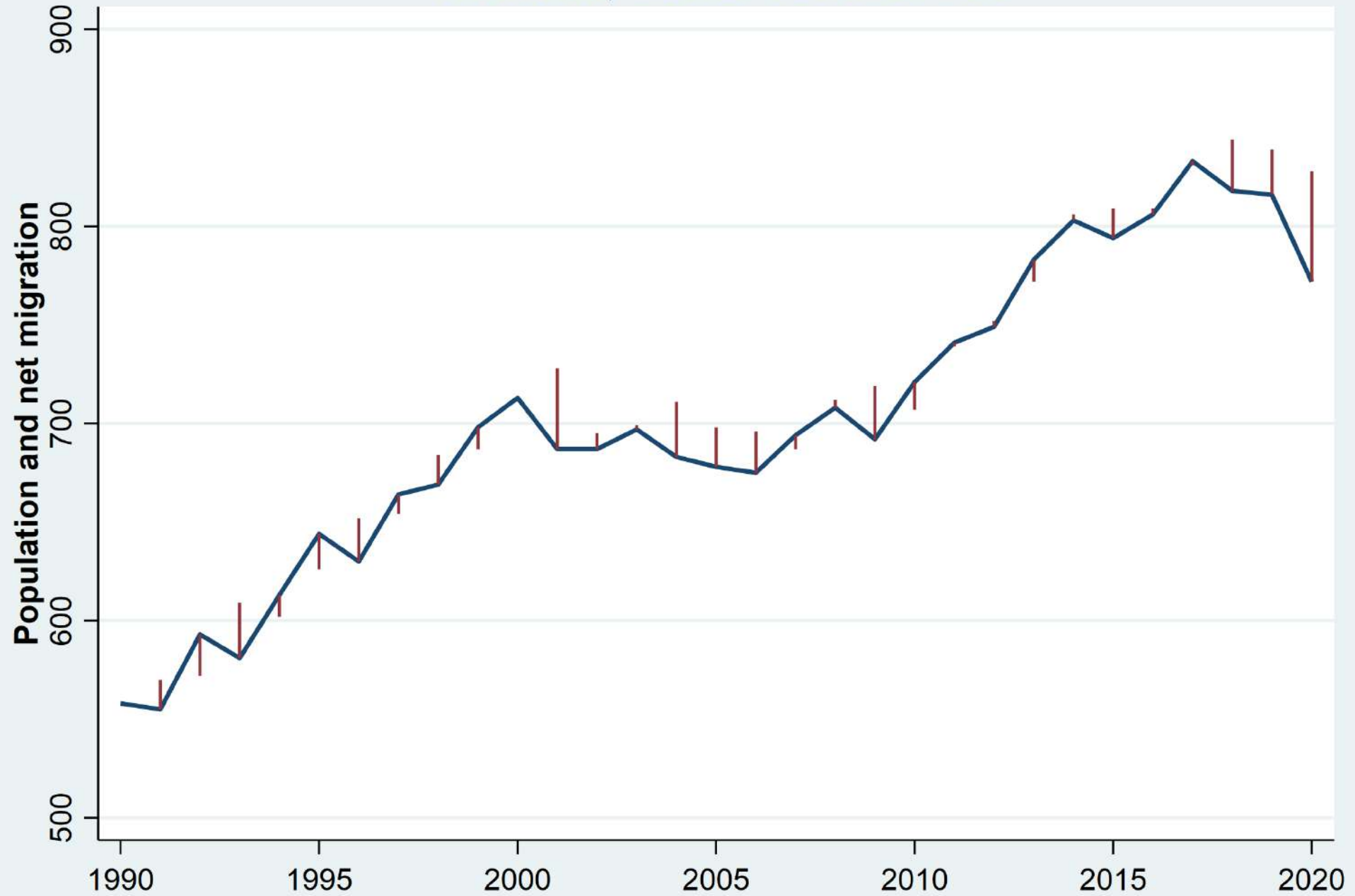
Kotzebue, Northwest Arctic Borough



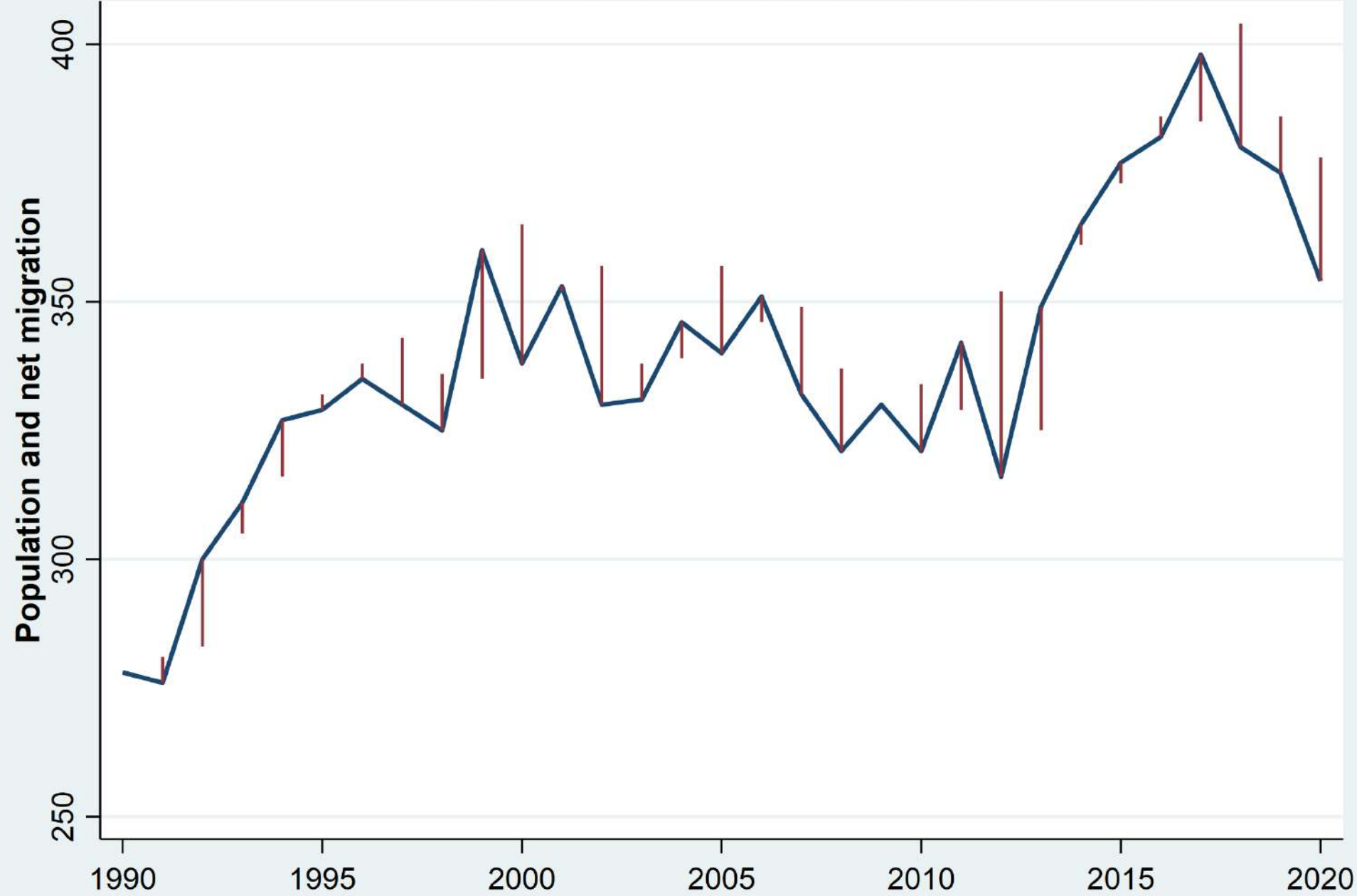
Koyuk, Nome Census Area



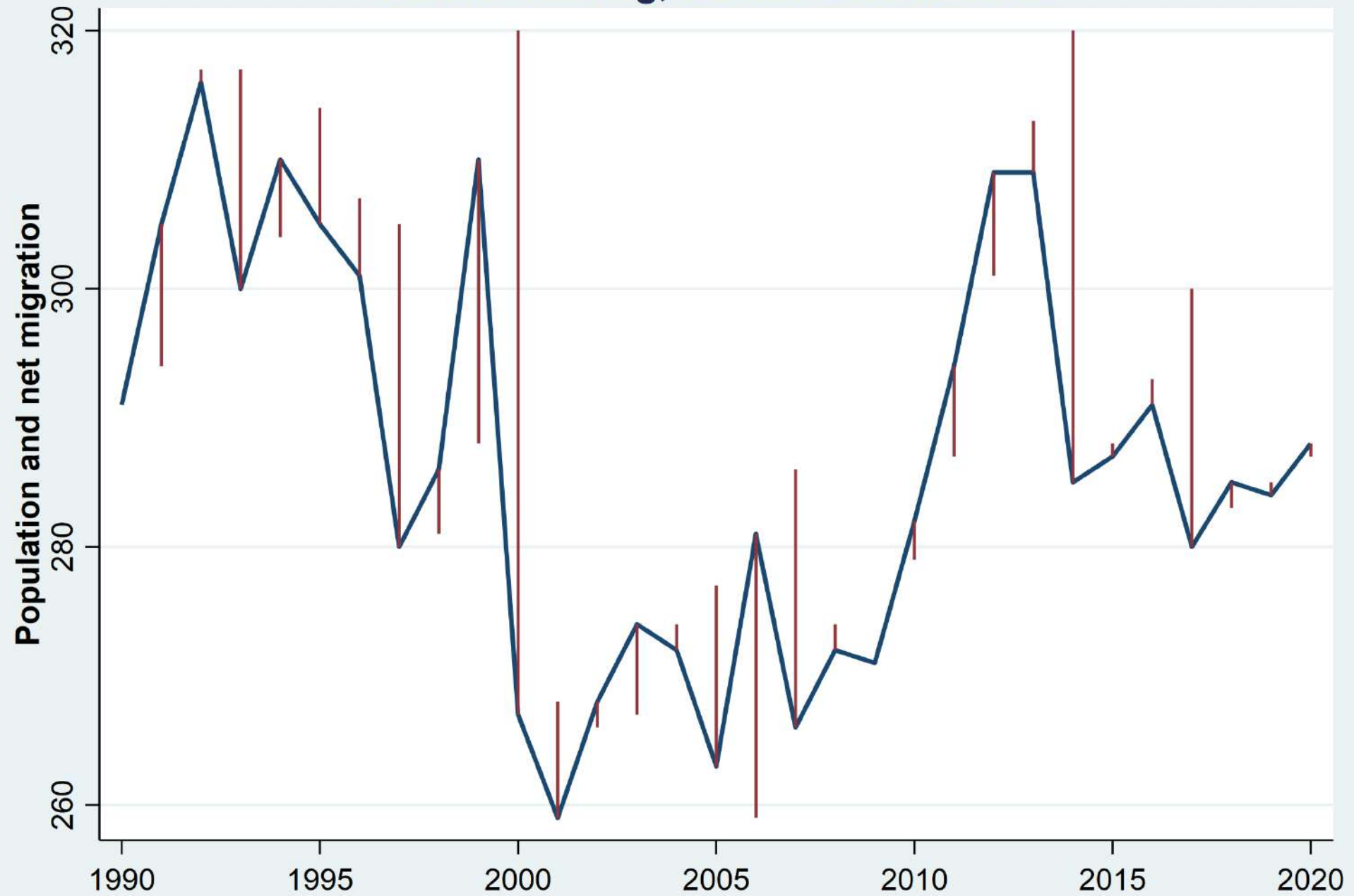
Kwethluk, Bethel Census Area



Kwigillingok, Bethel Census Area



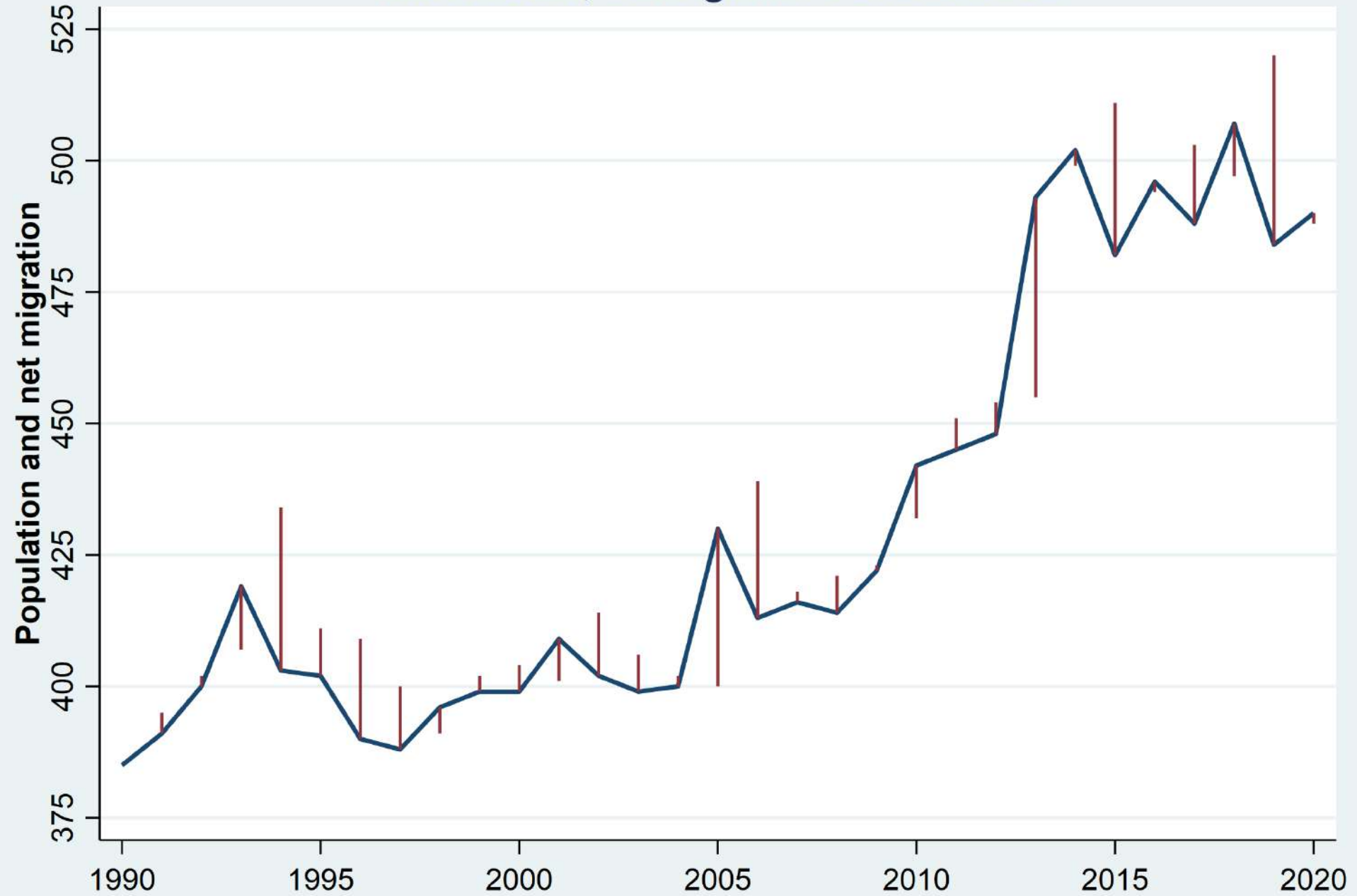
Lower Kalskag, Bethel Census Area



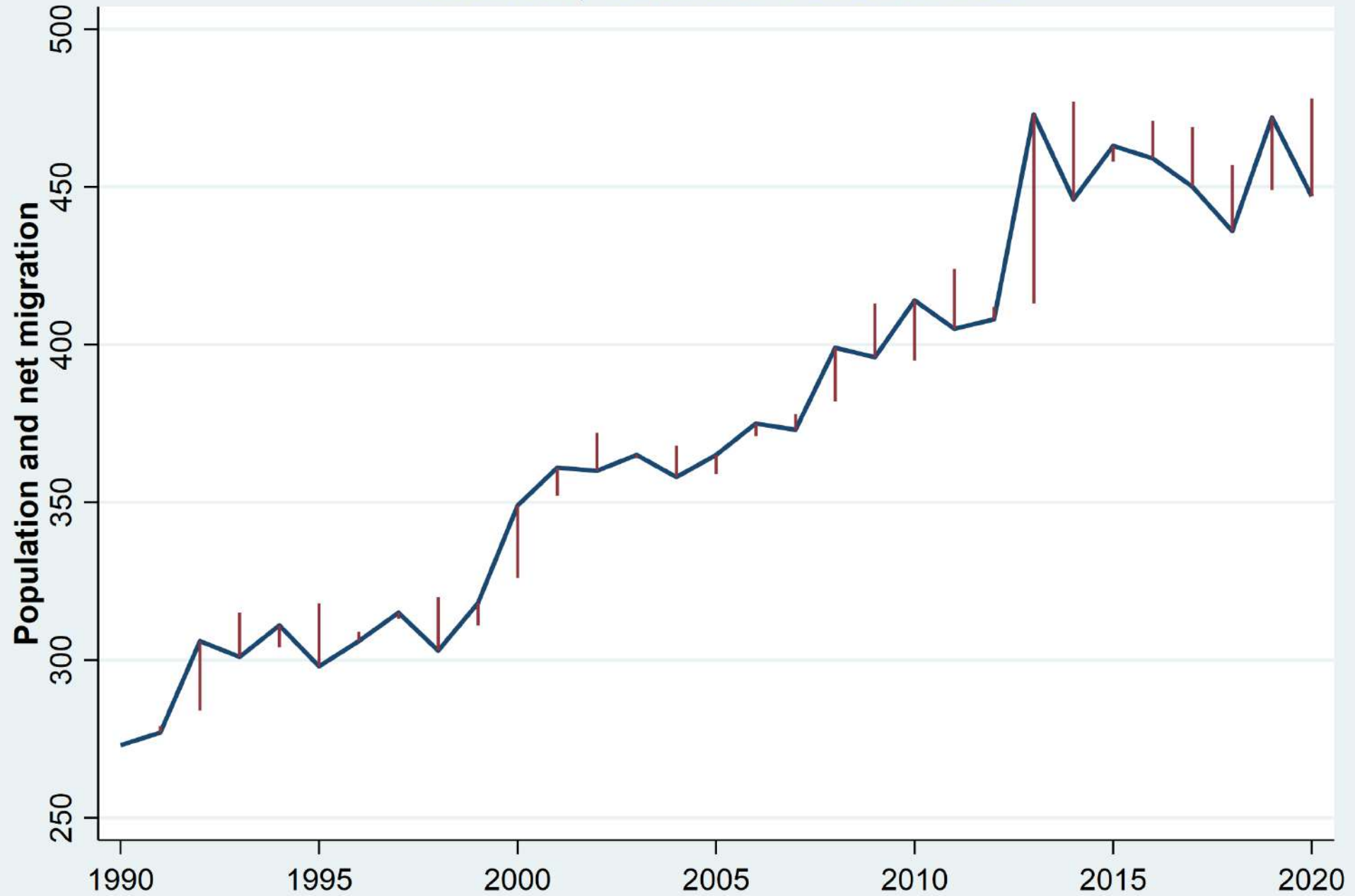
Manley Hot Springs, Yukon Koyukuk Census Area



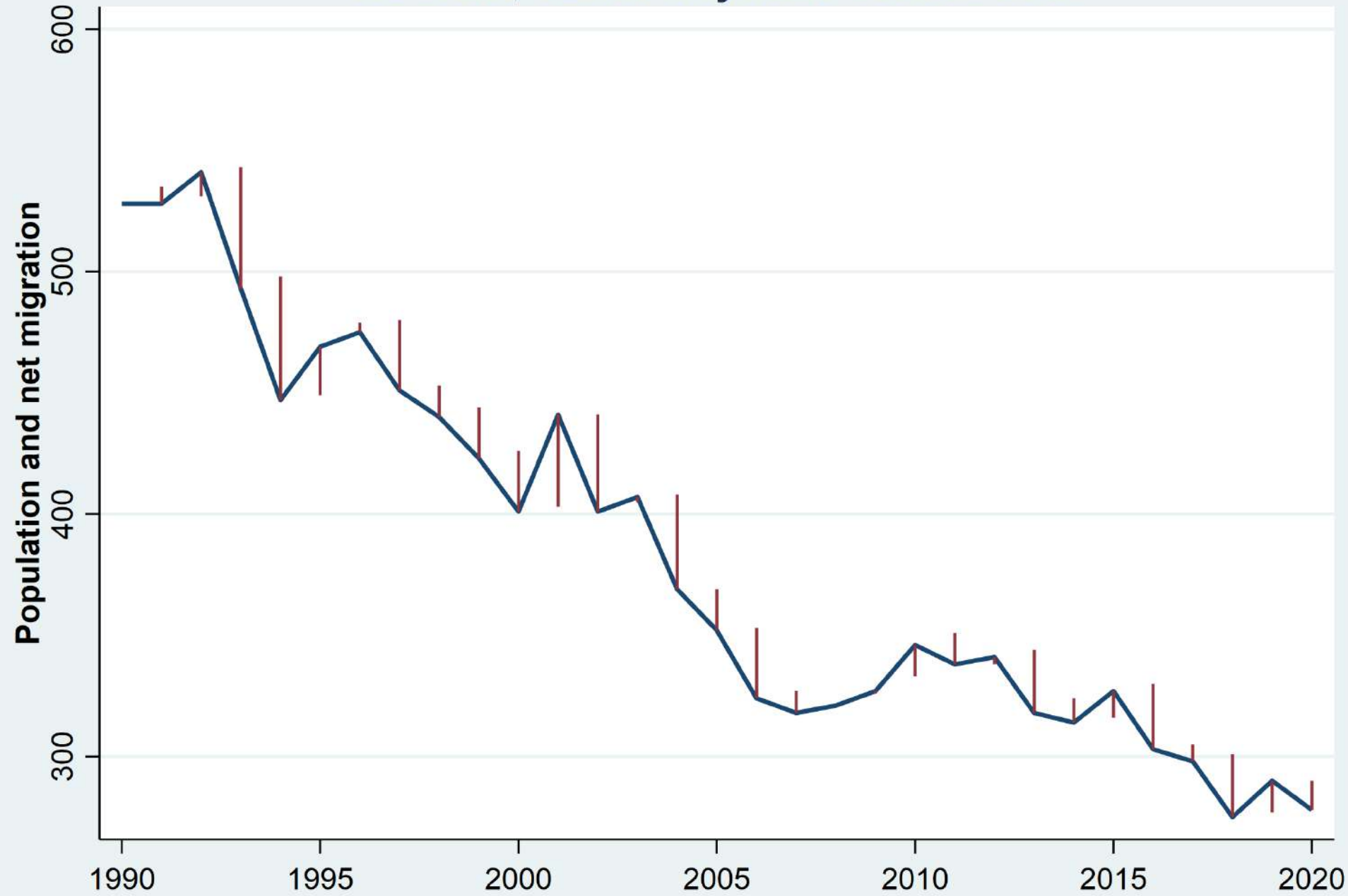
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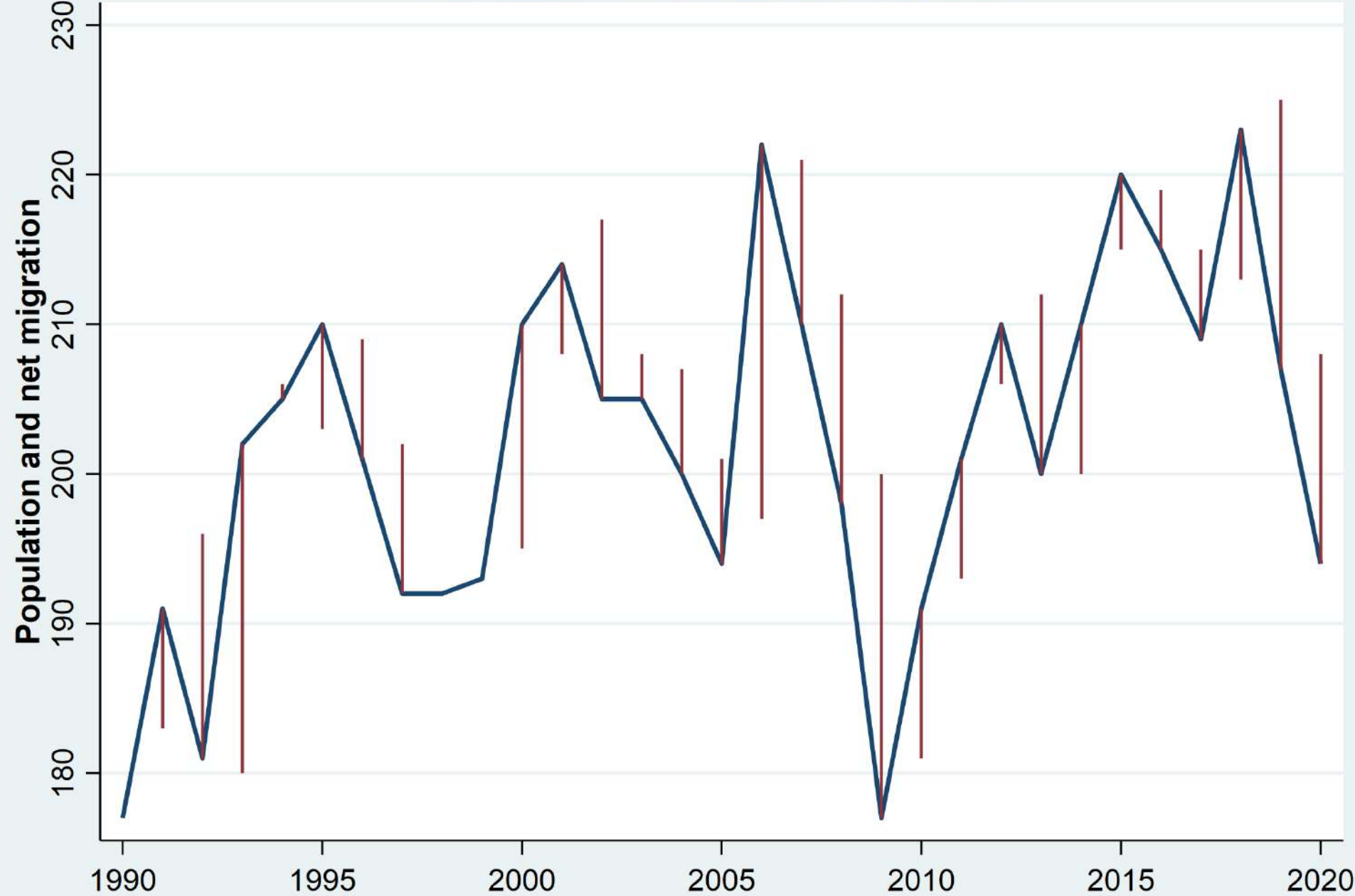
Marshall, Kusilvak Census Area



McGrath, Yukon Koyukuk Census Area



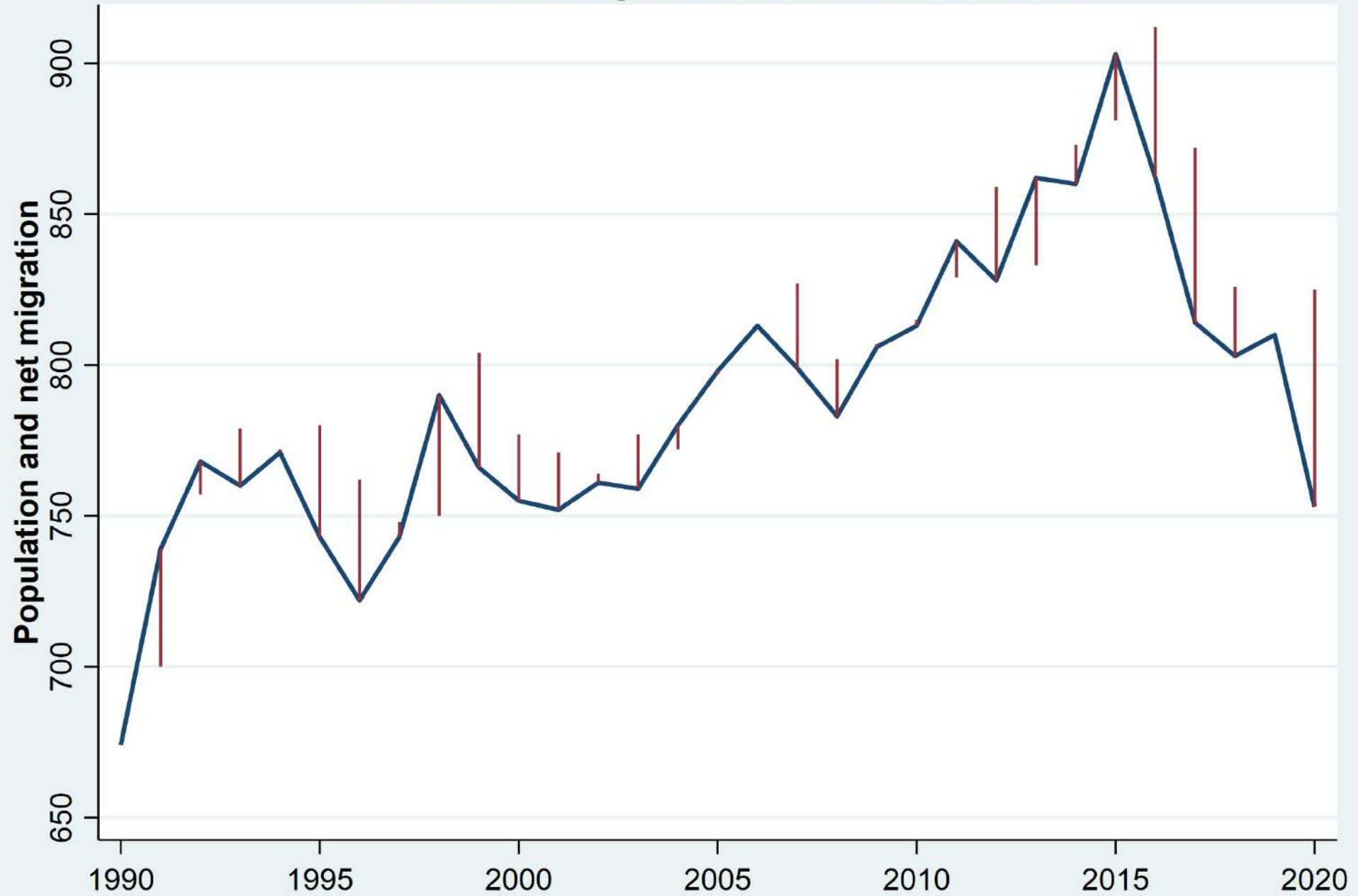
Mekoryuk, Bethel Census Area



Minto, Yukon Koyukuk Census Area



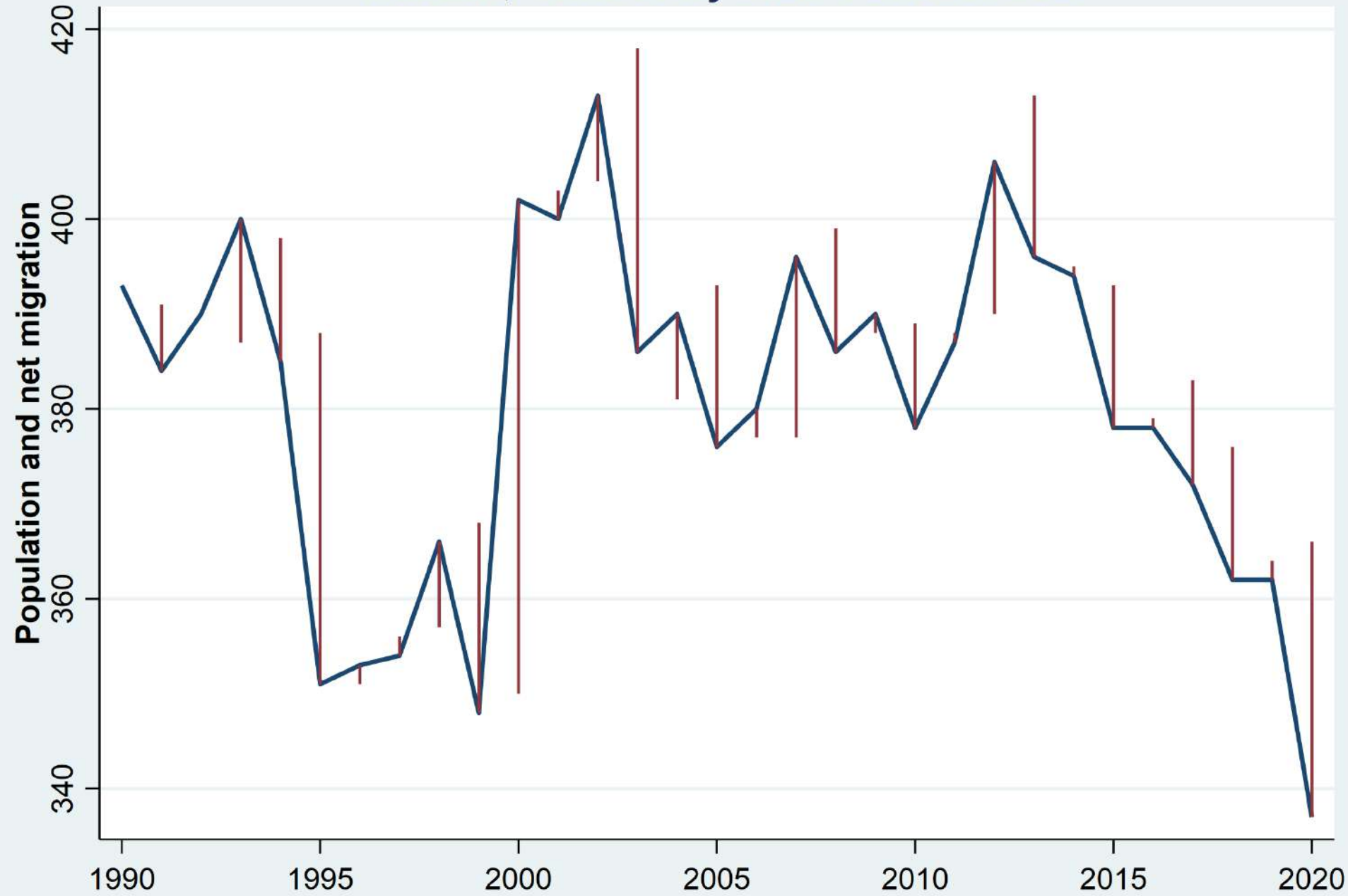
Mountain Village, Kusilvak Census Area



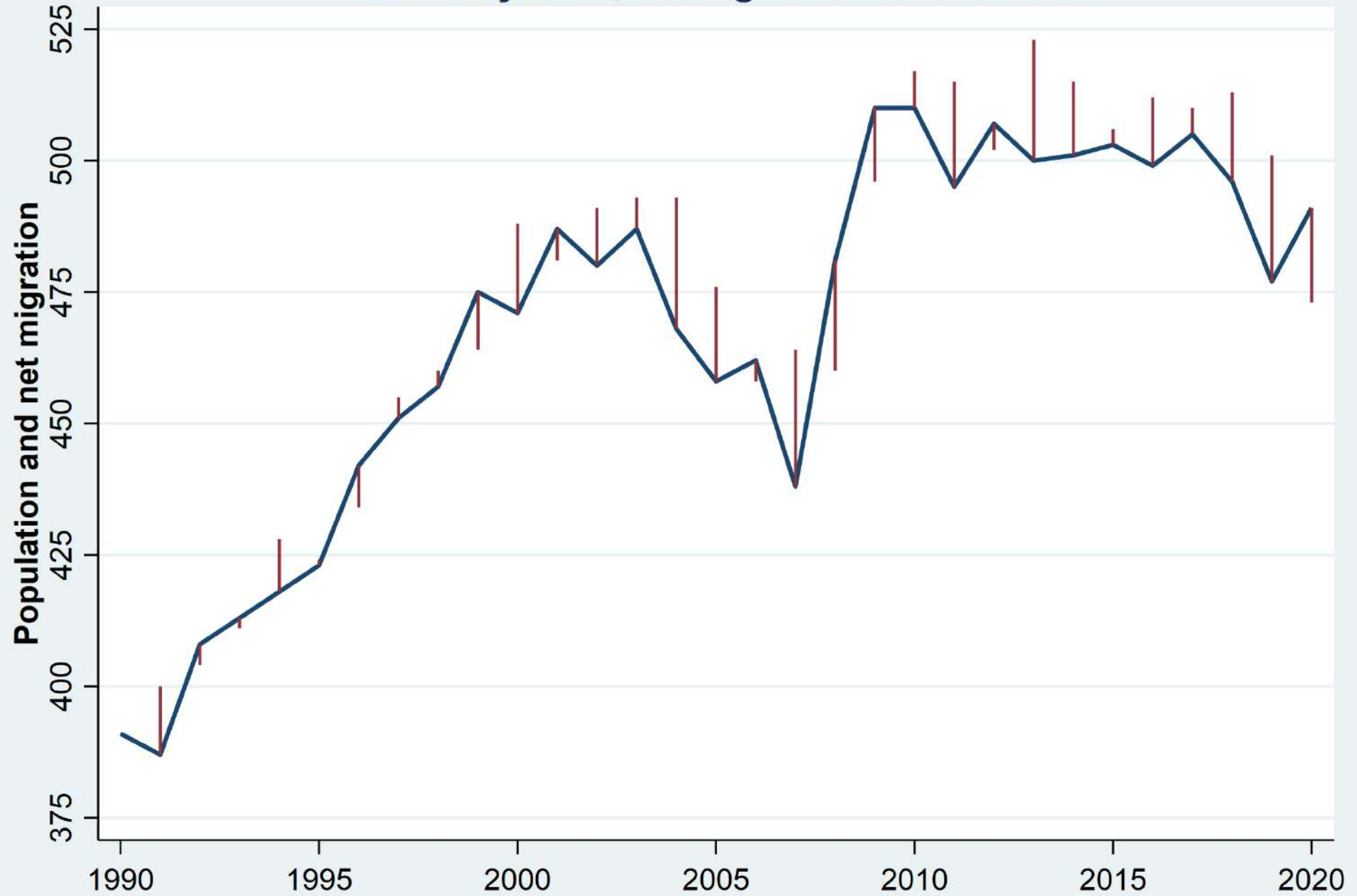
Napaskiak, Bethel Census Area



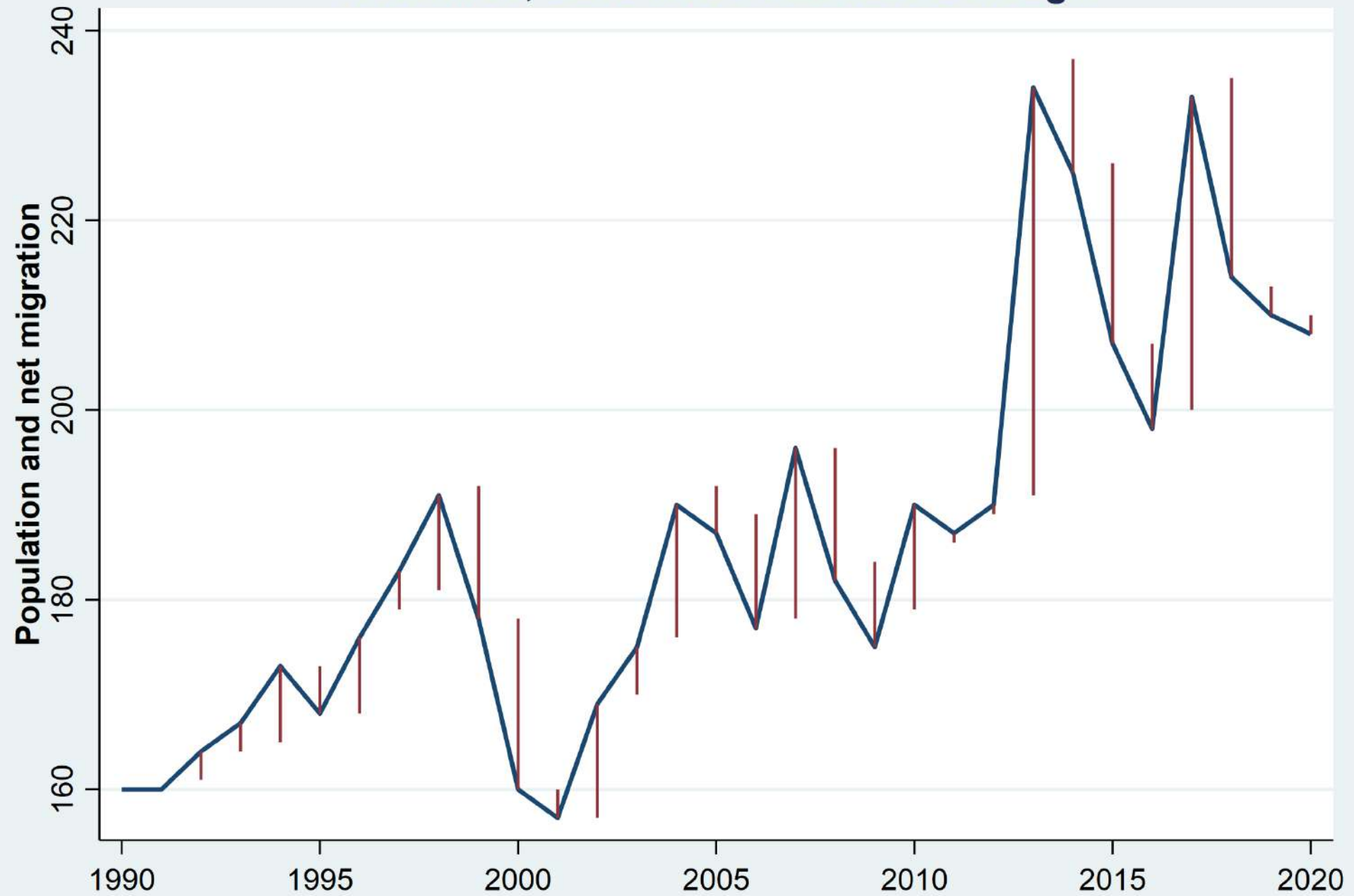
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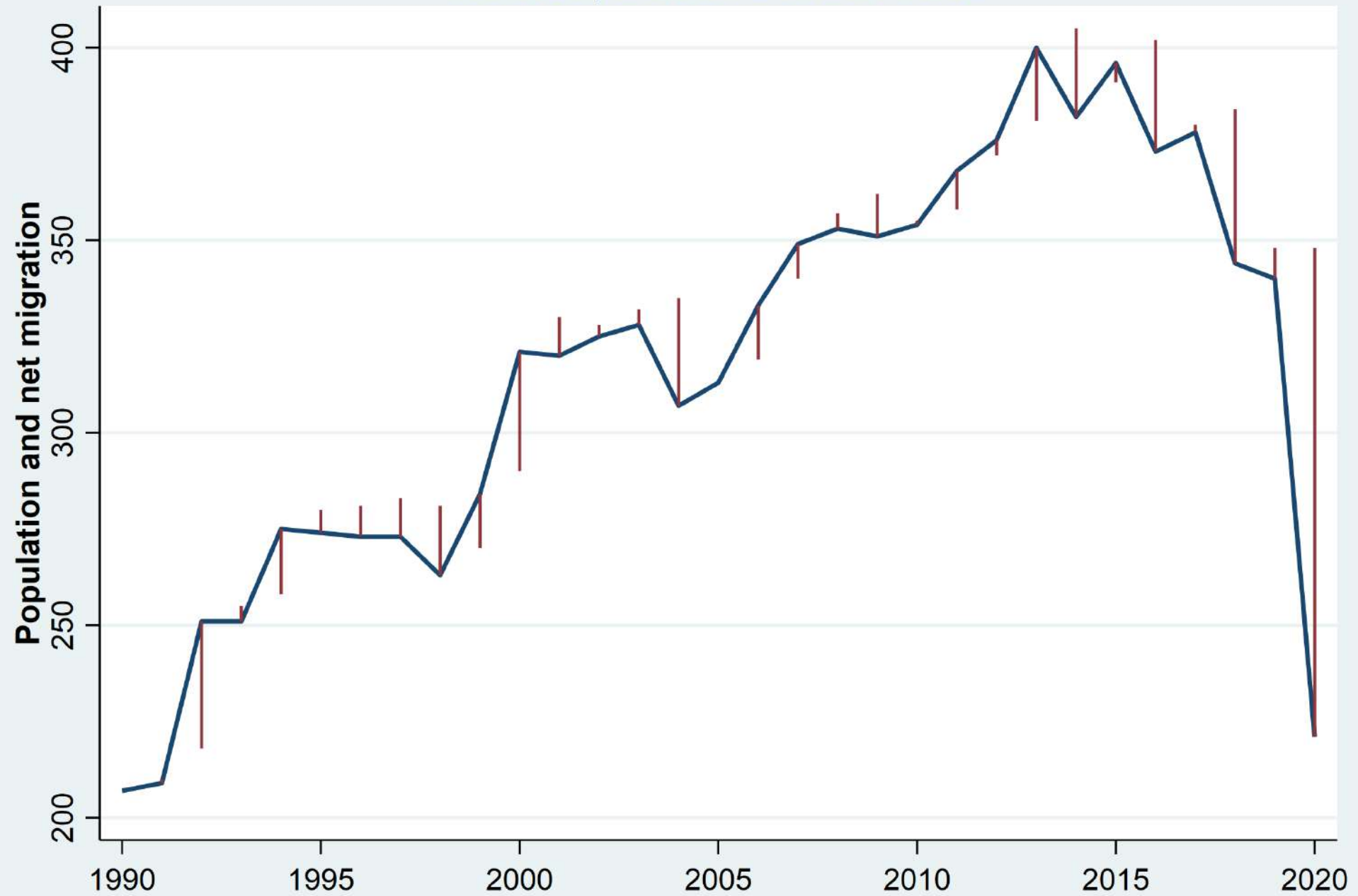
New Stuyahok, Dillingham Census Area



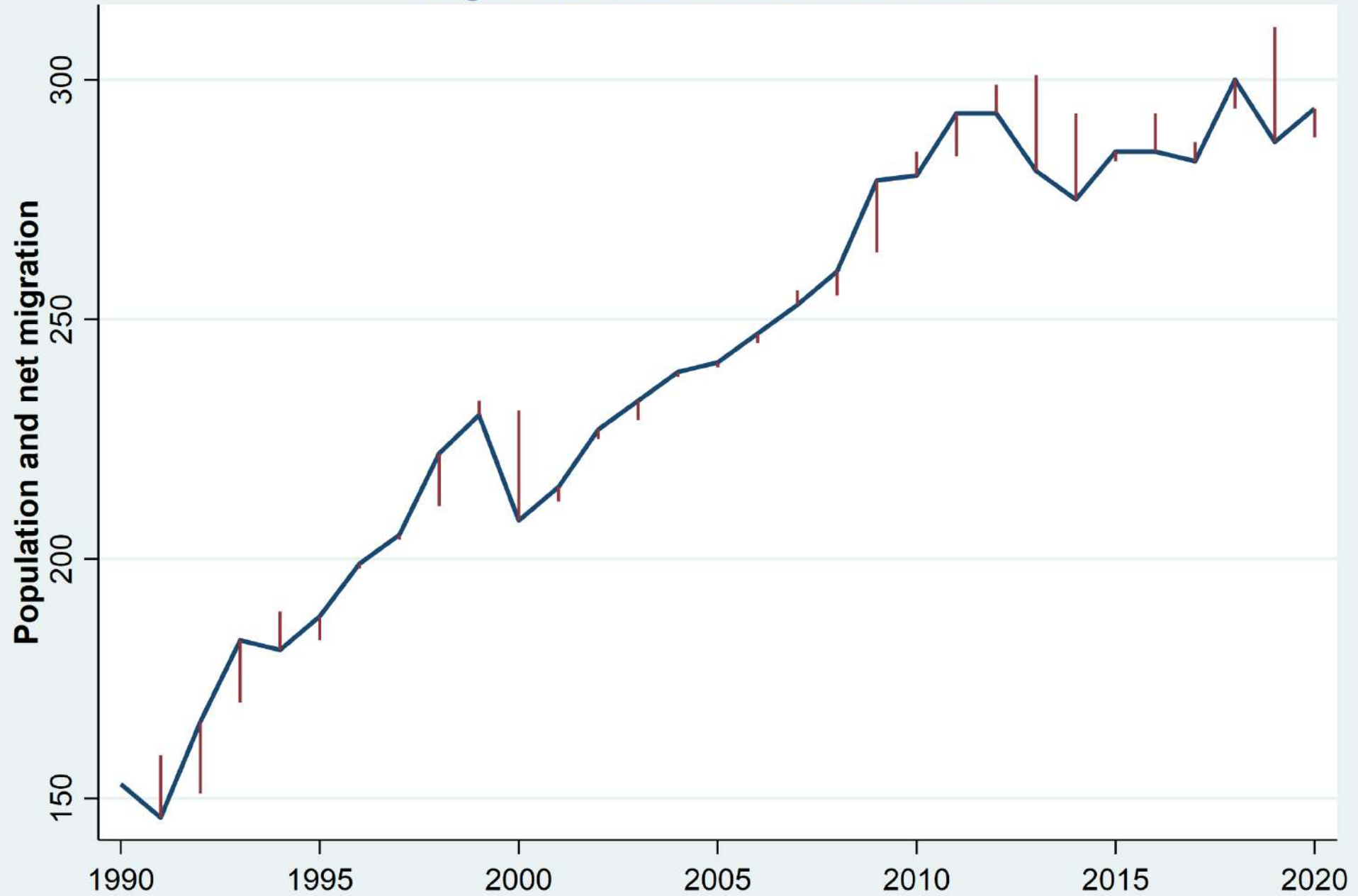
Newhalen, Lake and Peninsula Borough



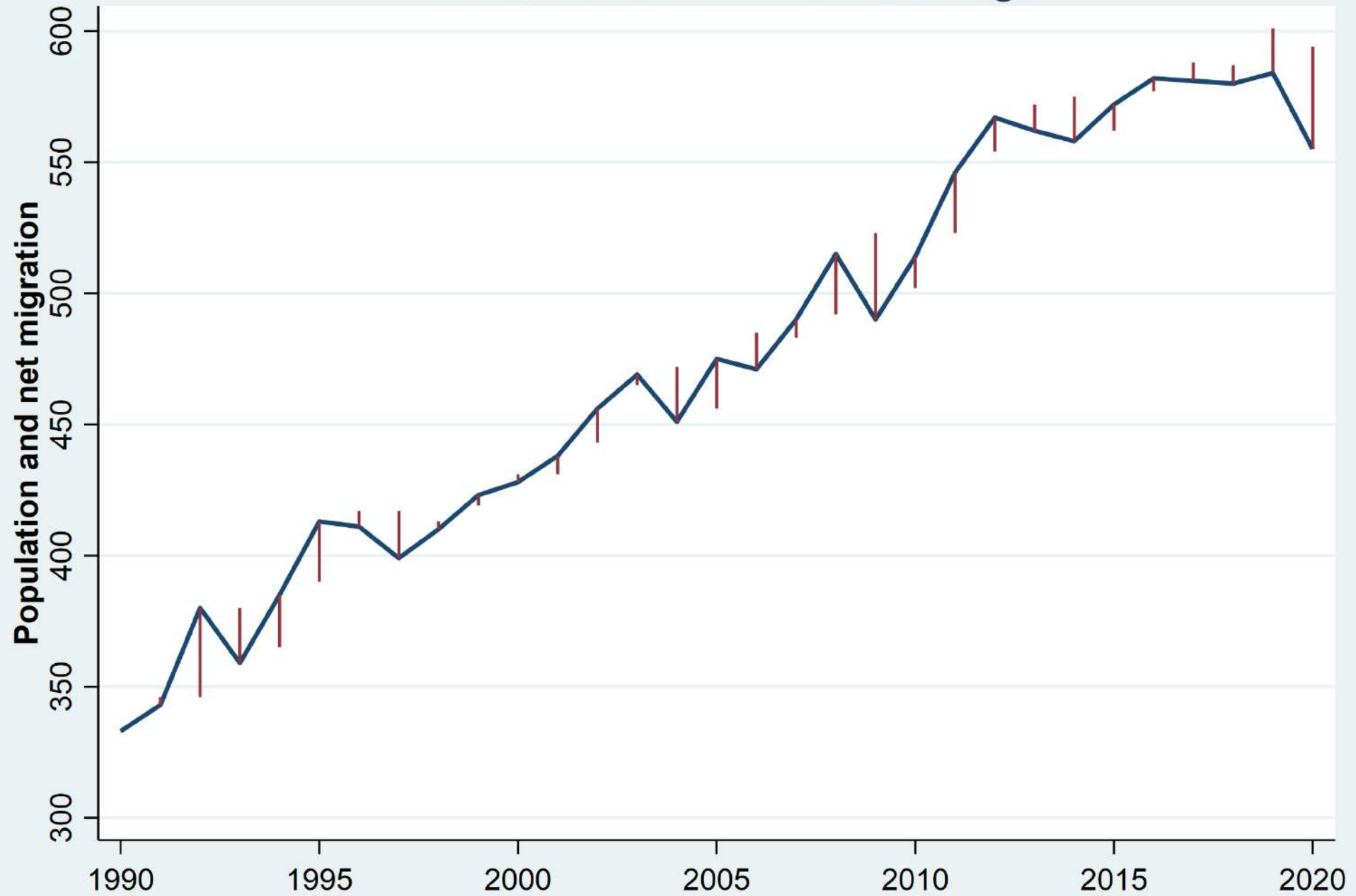
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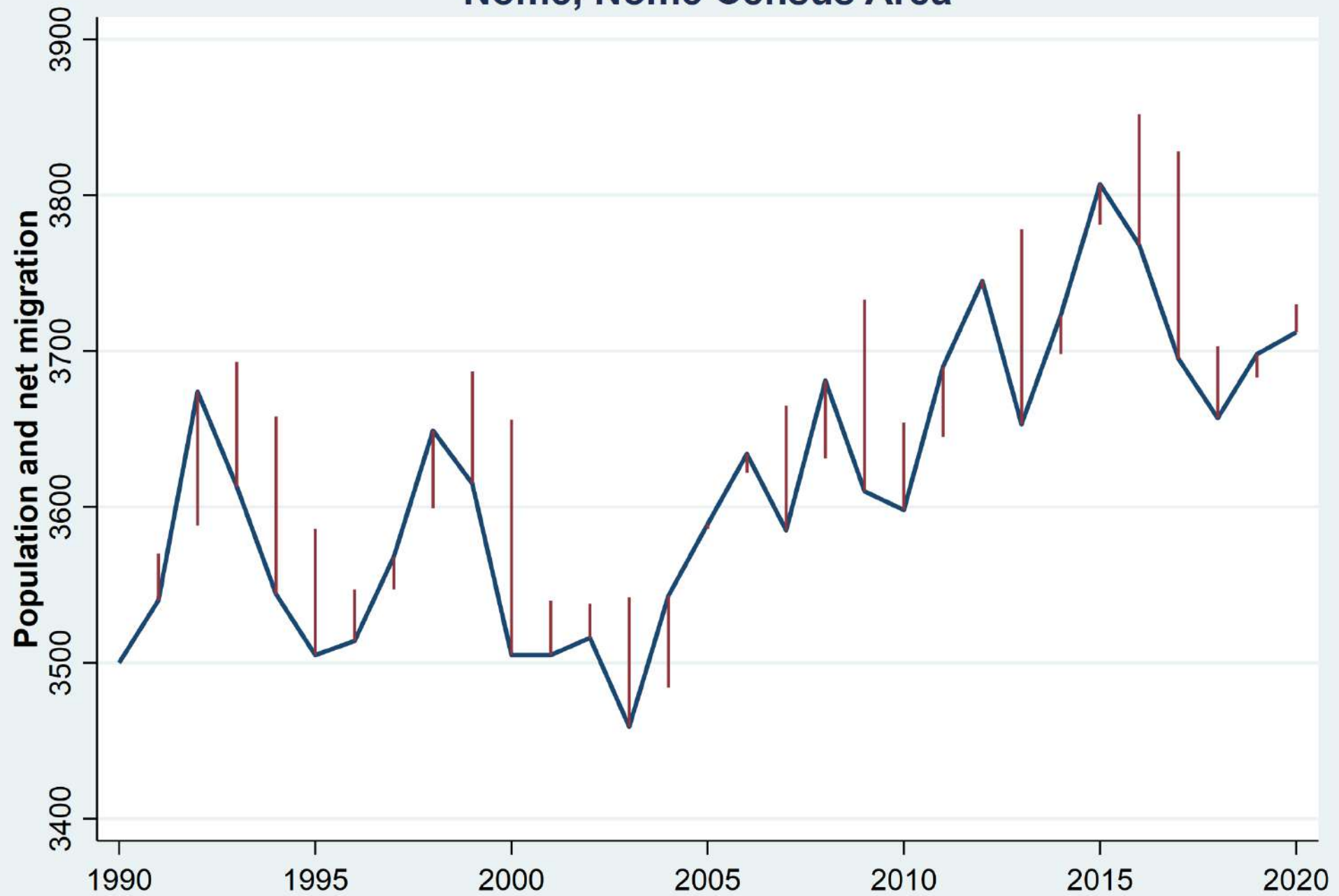
Nightmute, Bethel Census Area



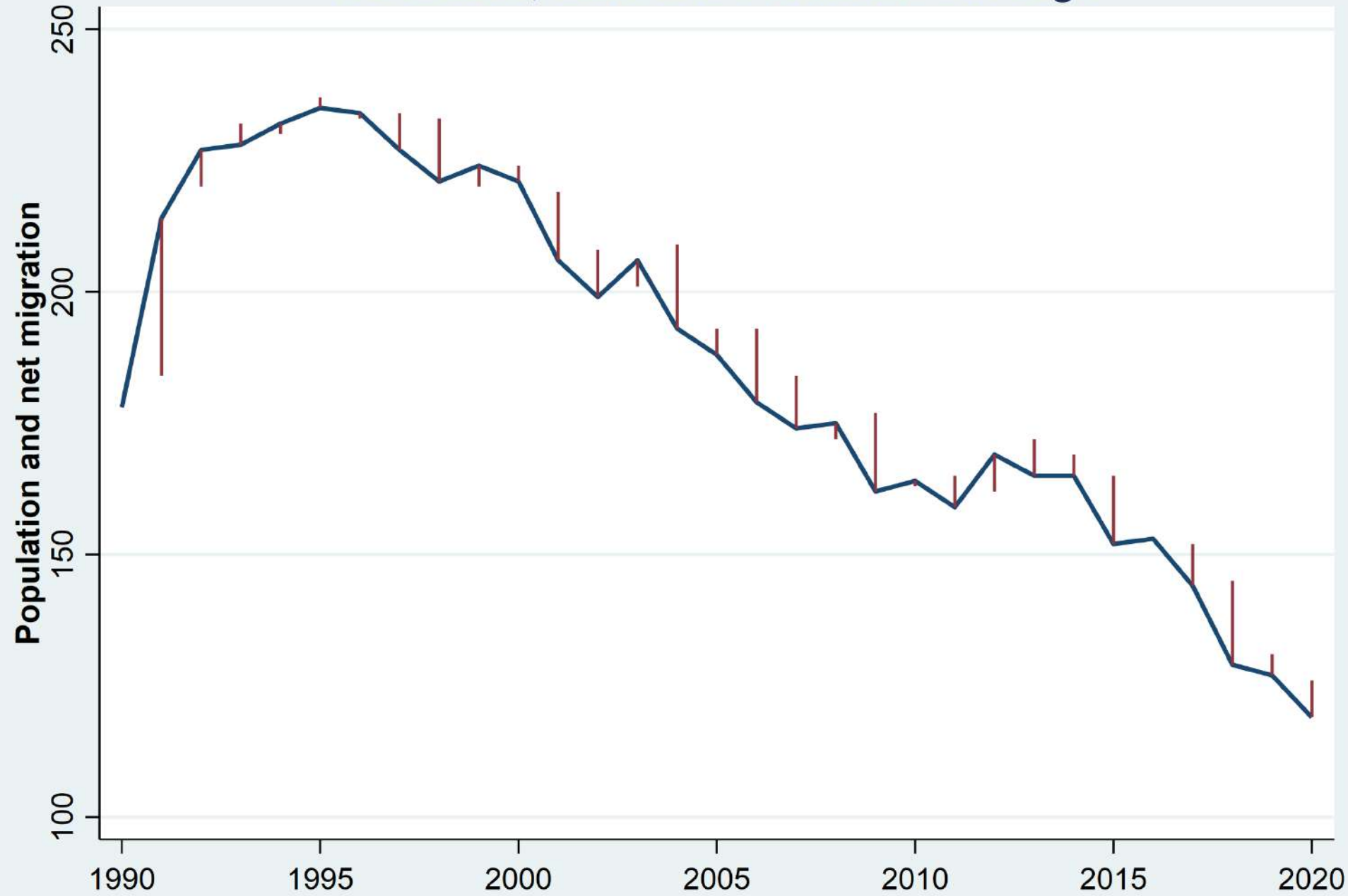
Noatak, Northwest Arctic Borough



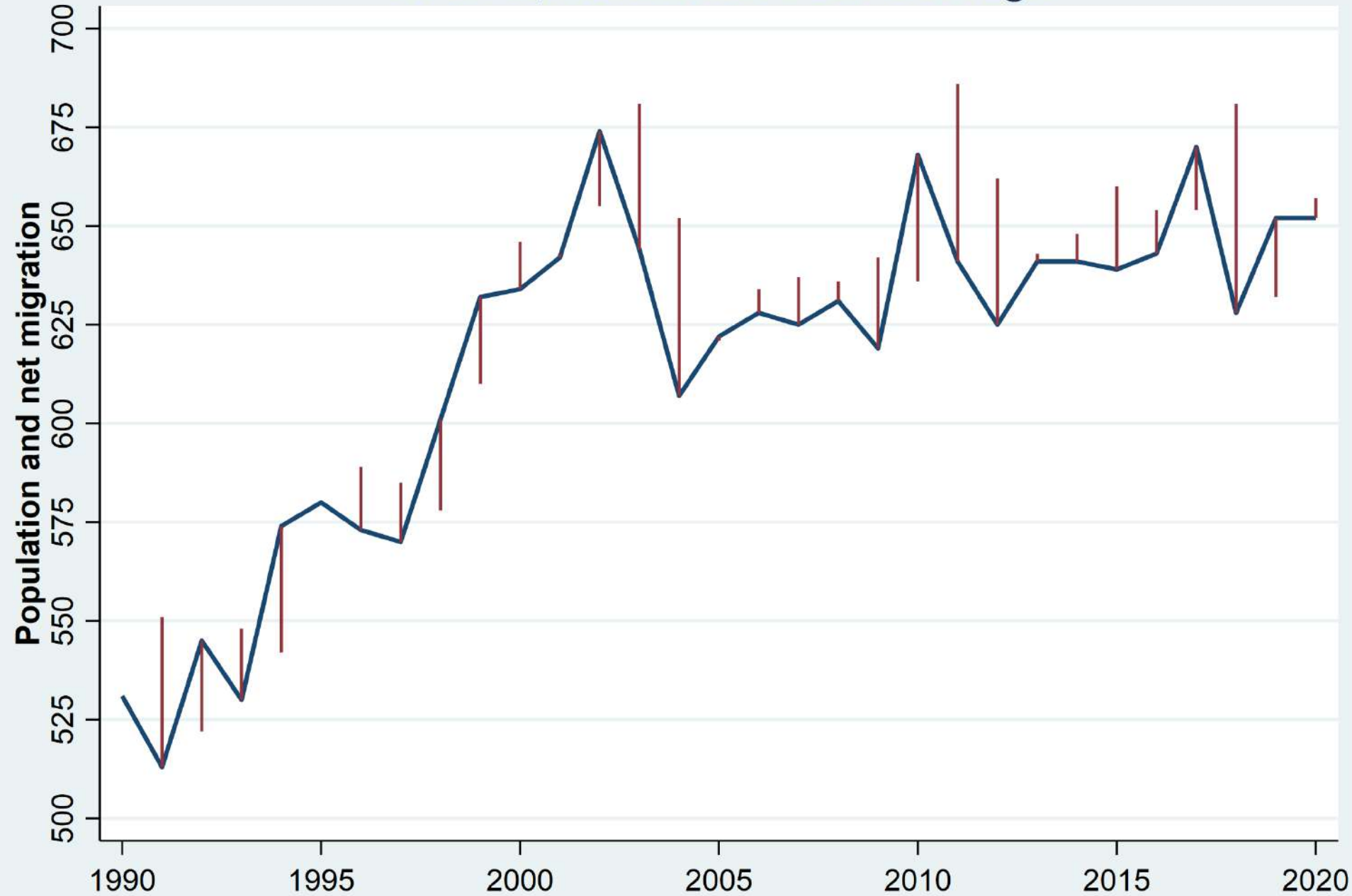
Nome, Nome Census Area



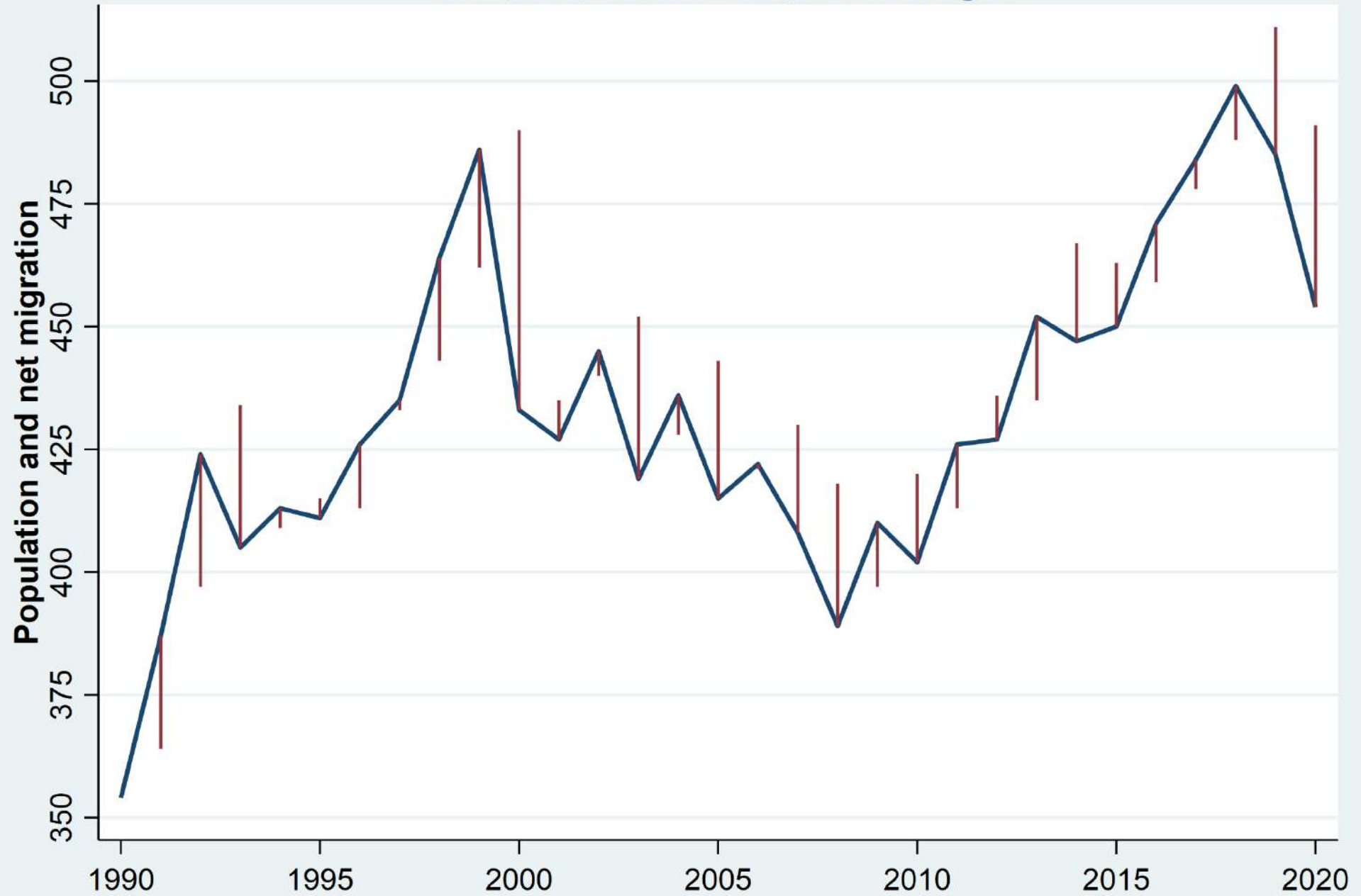
Nondalton, Lake and Peninsula Borough



Noorvik, Northwest Arctic Borough



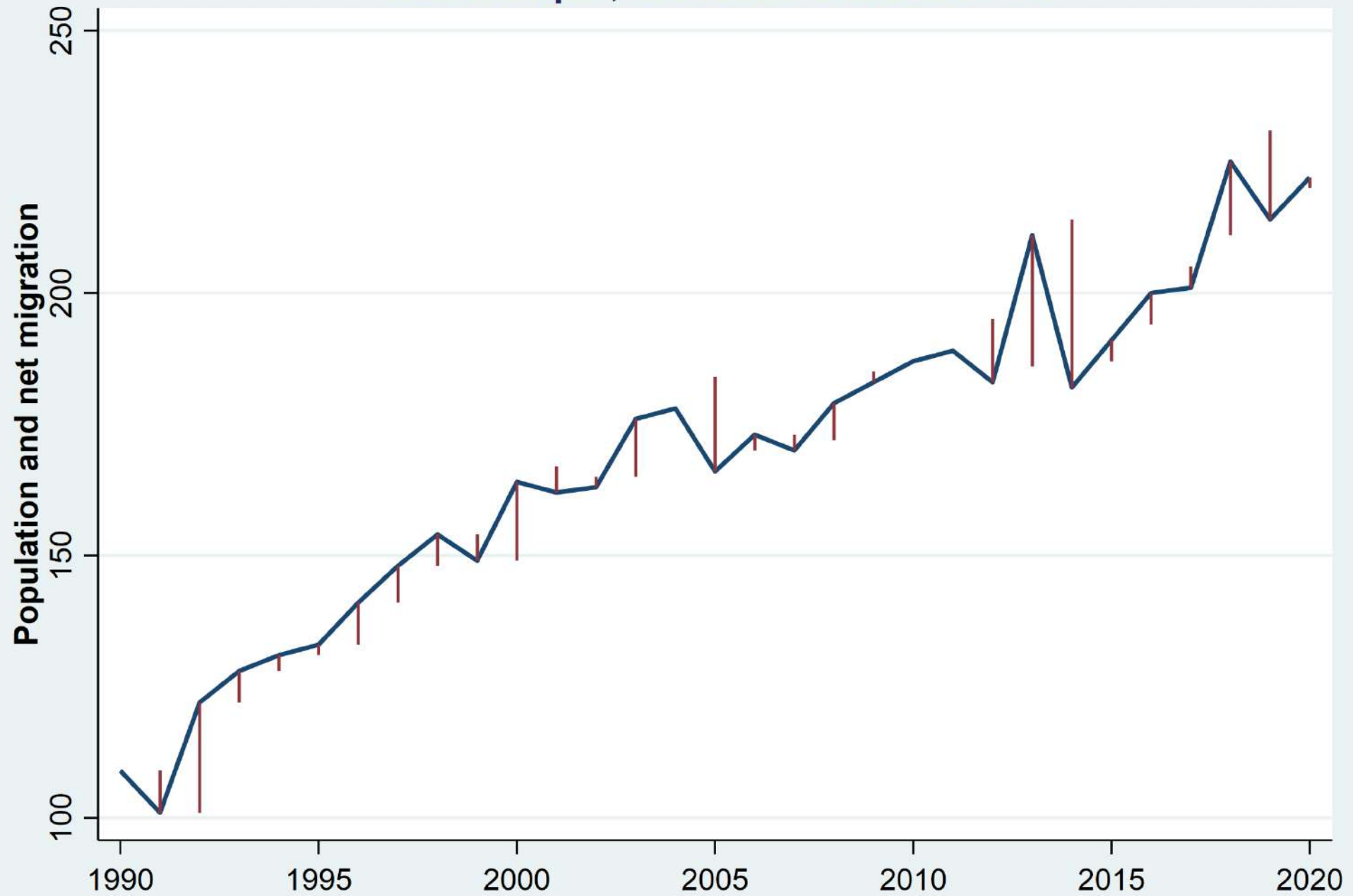
Nuiqsut, North Slope Borough



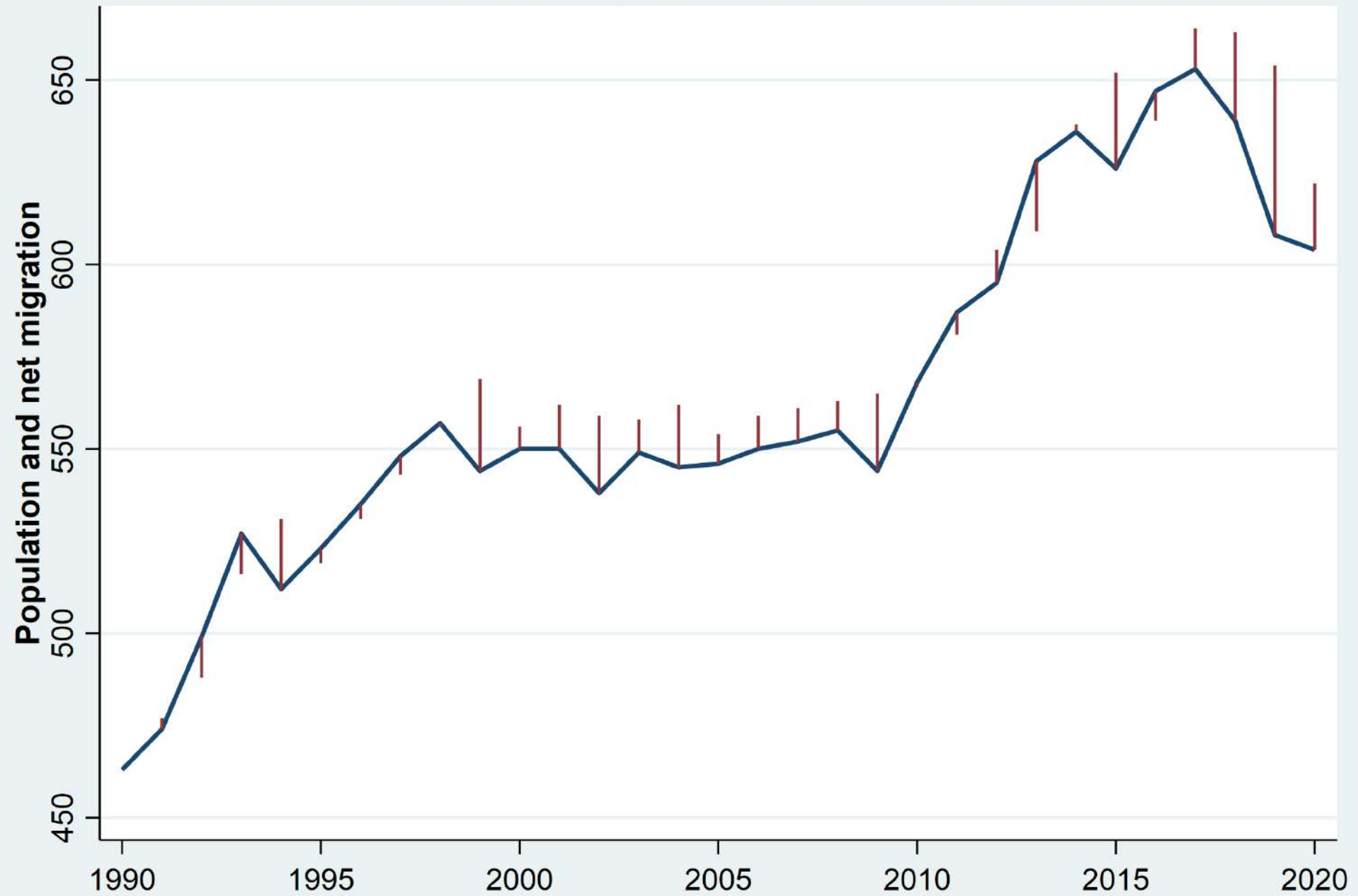
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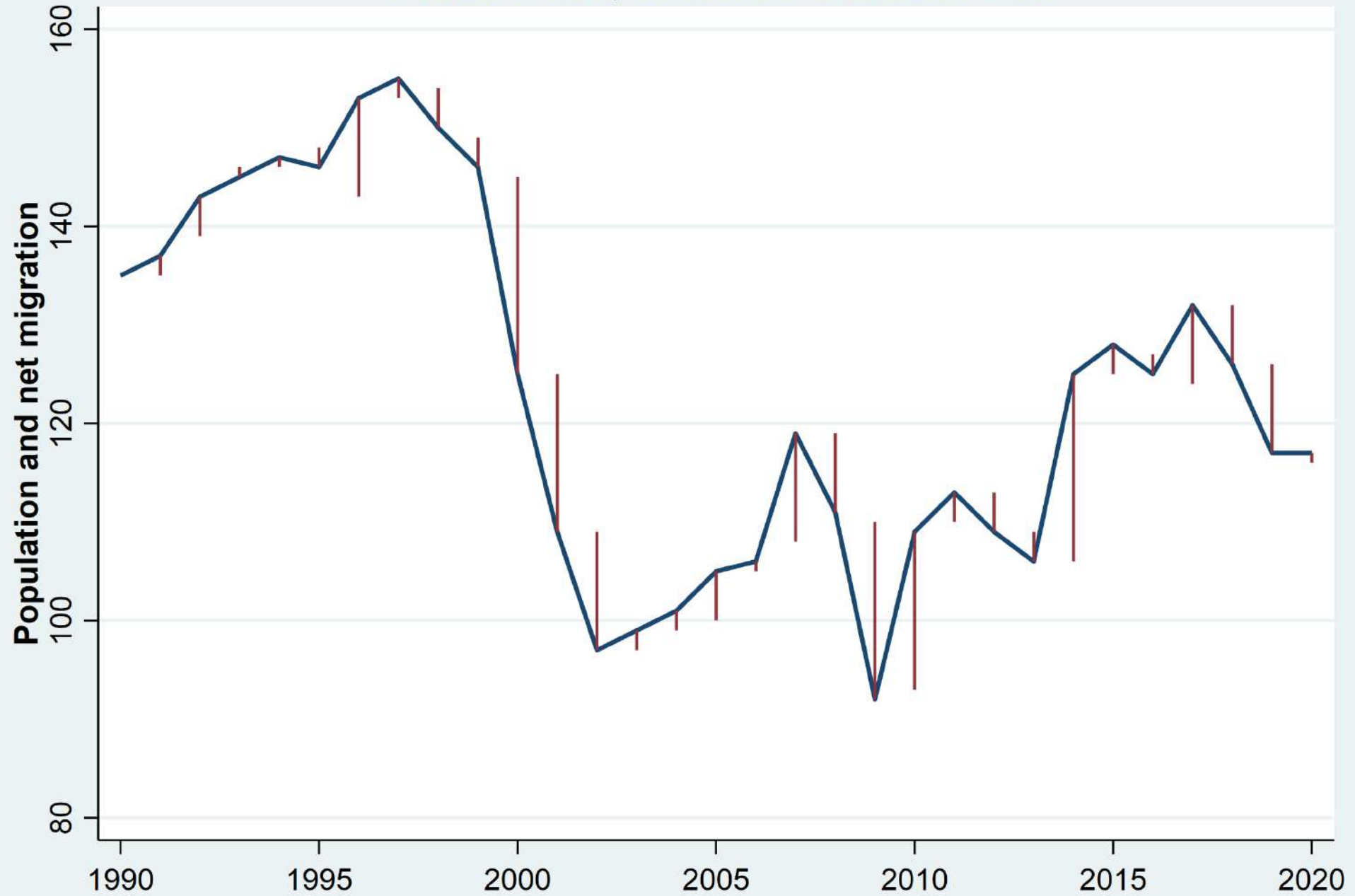
Nunam Iqua, Kusilvak Census Area



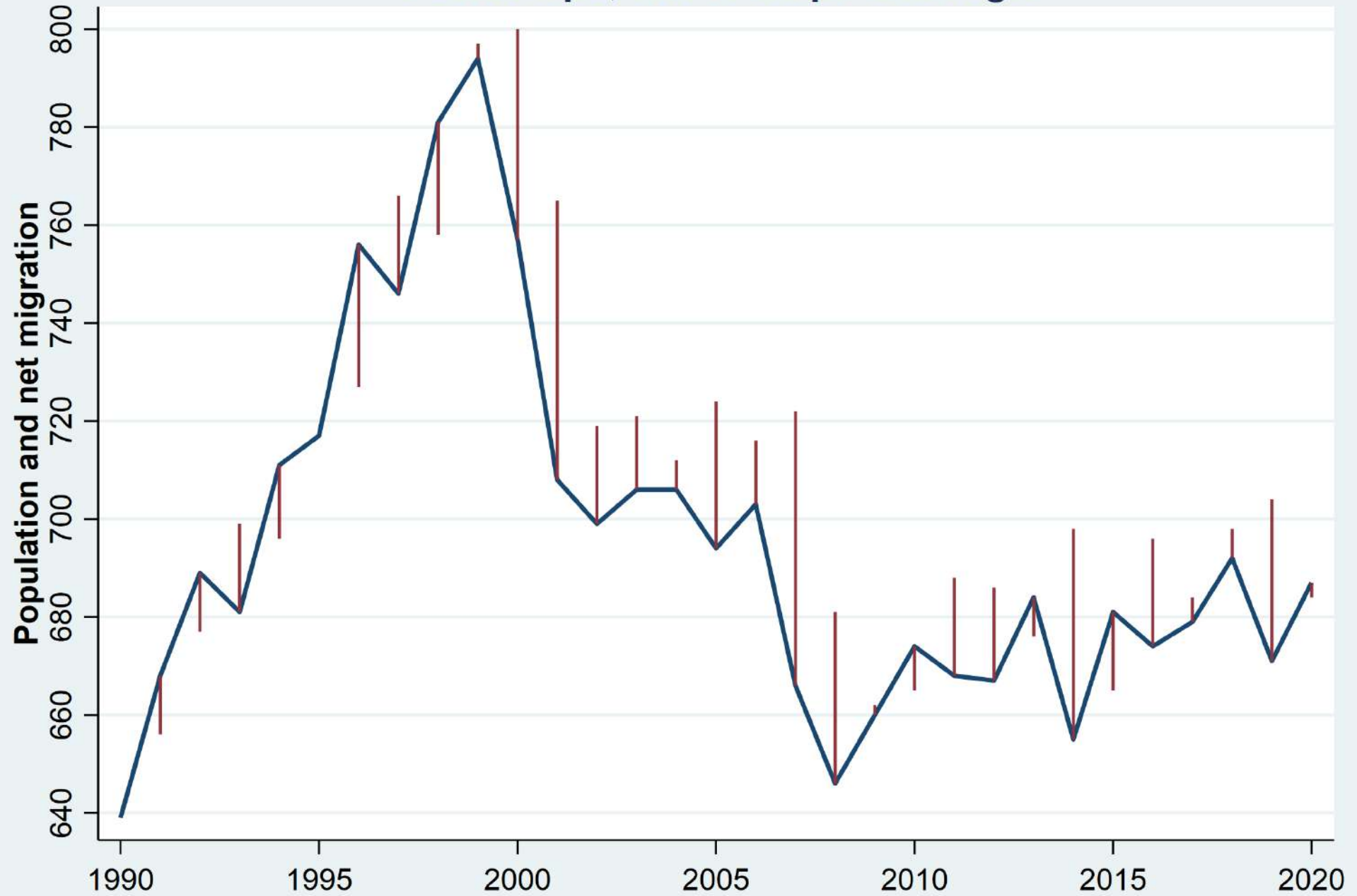
Pilot Station, Kusilvak Census Area



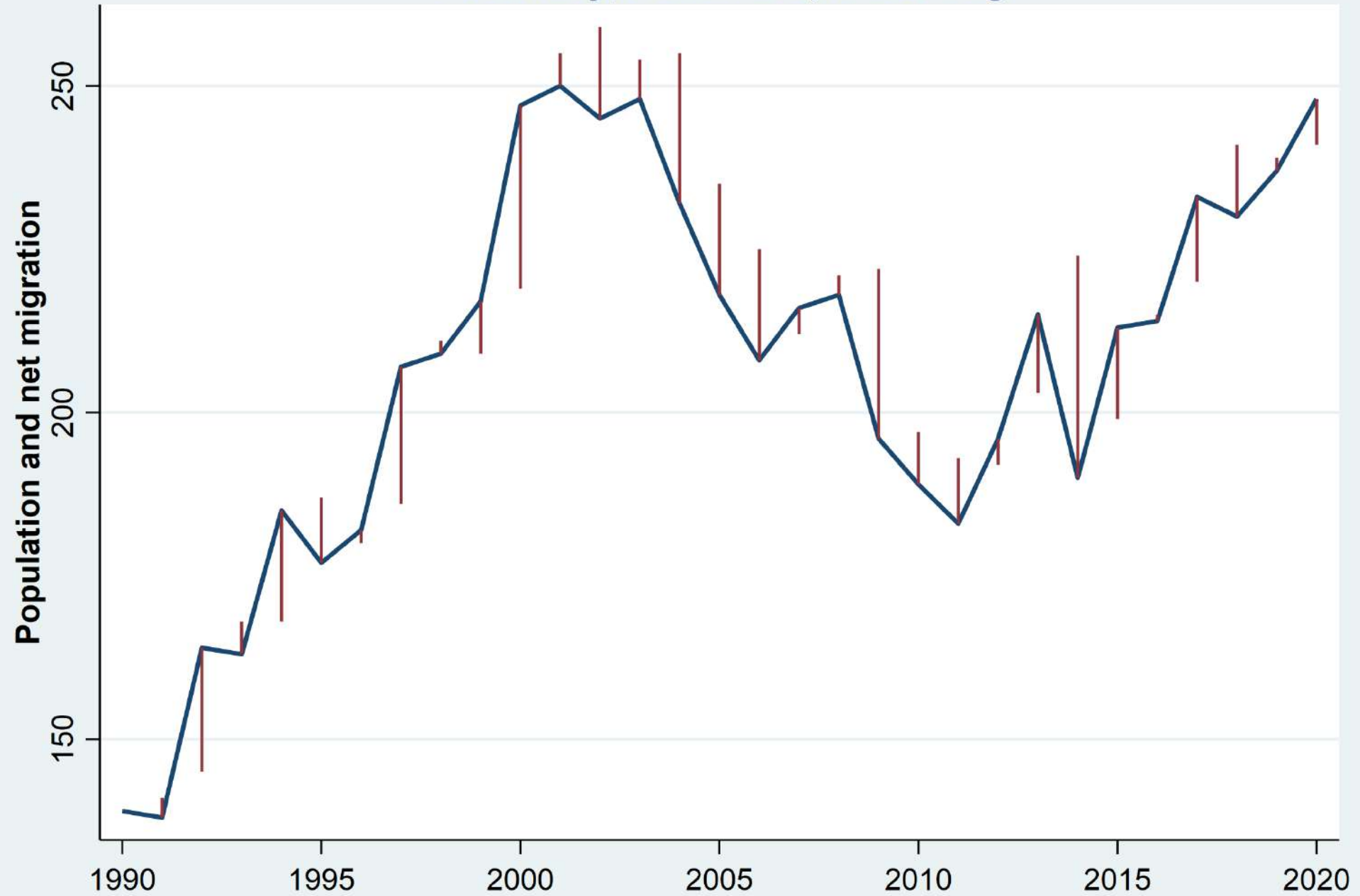
Pitkas Point, Kusilvak Census Area



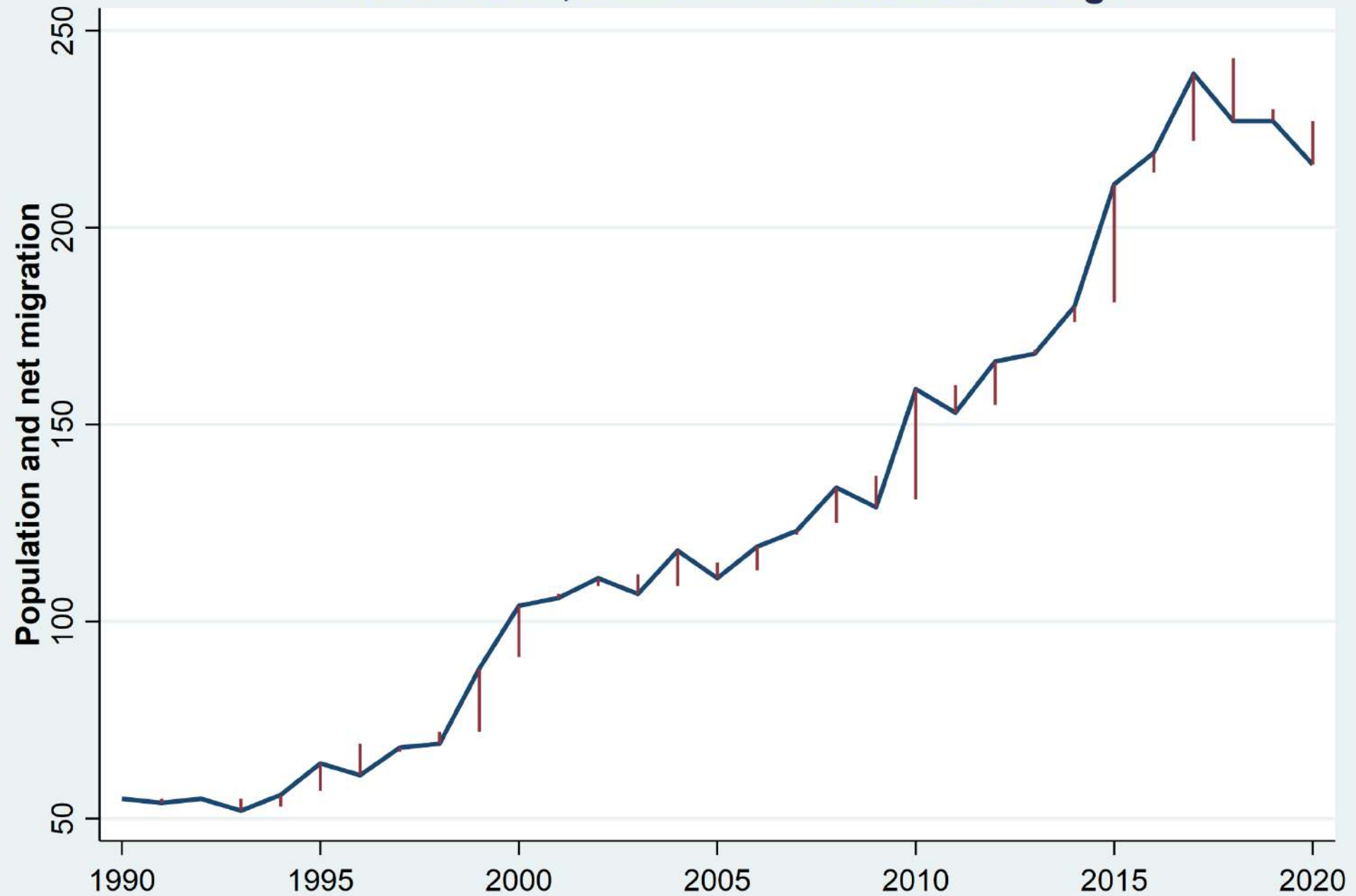
Point Hope, North Slope Borough



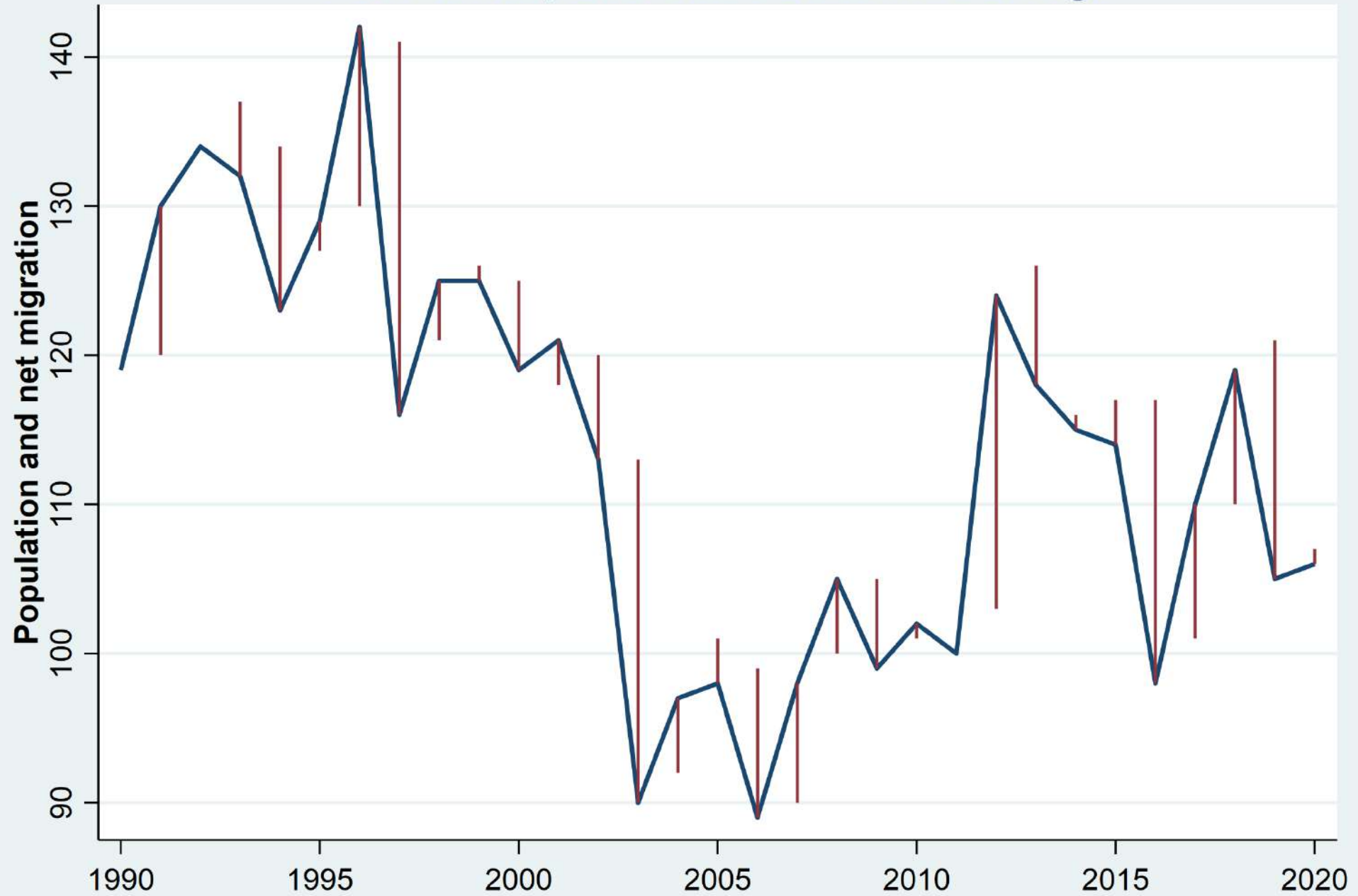
Point Lay, North Slope Boroug



Port Alsworth, Lake and Peninsula Borough



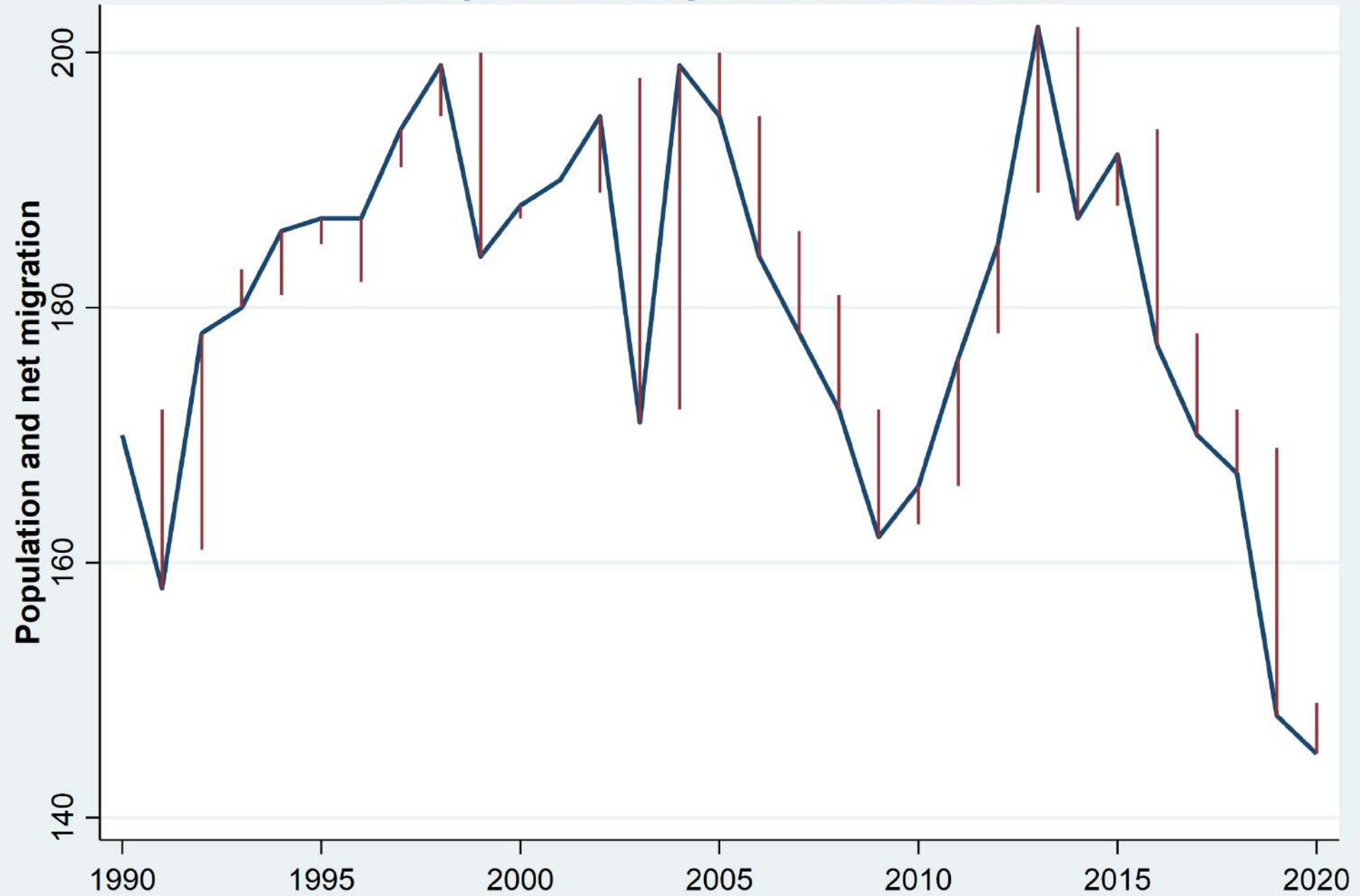
Port Heiden, Lake and Peninsula Borough



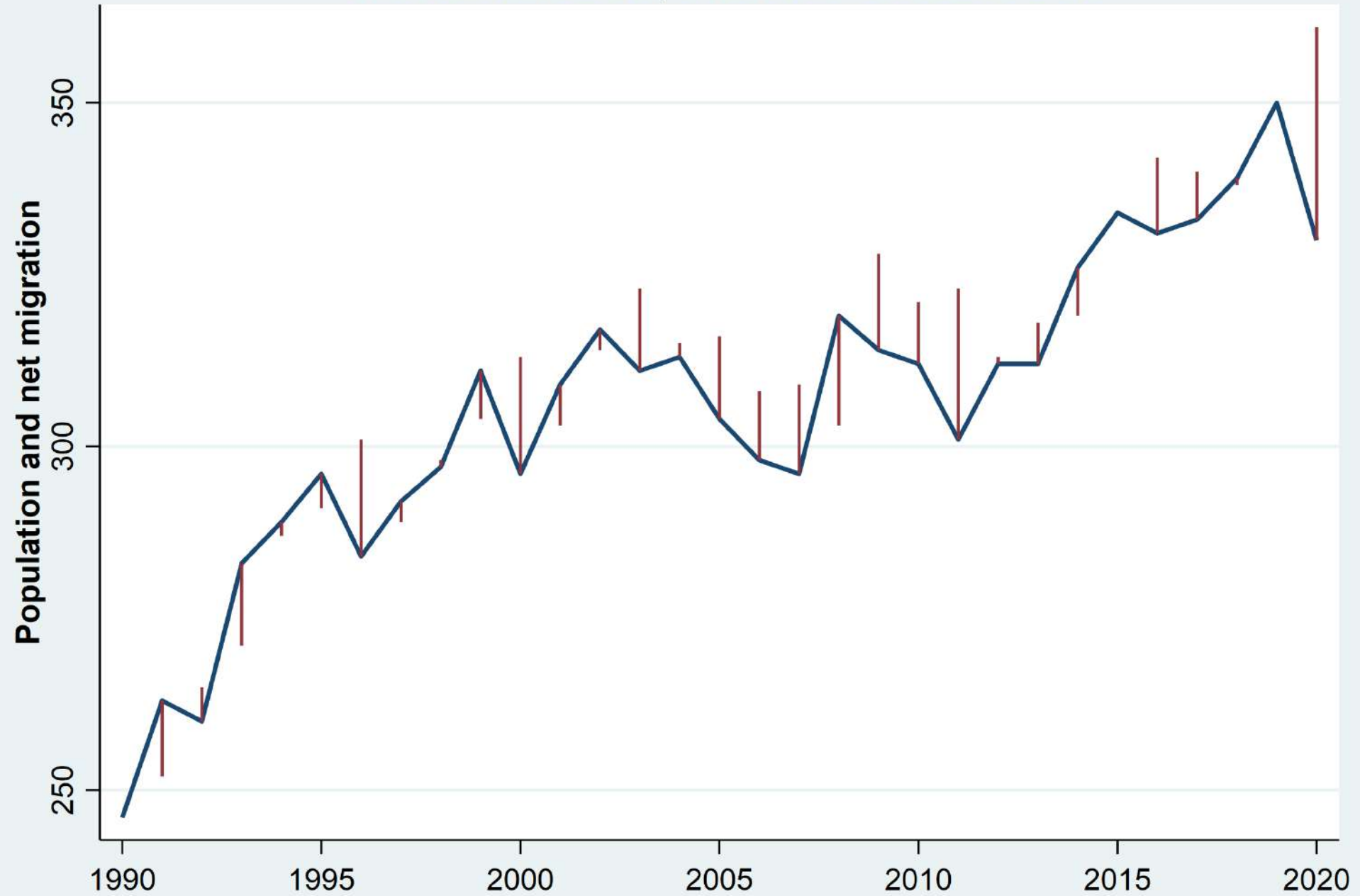
Quinhagak, Bethel Census Area



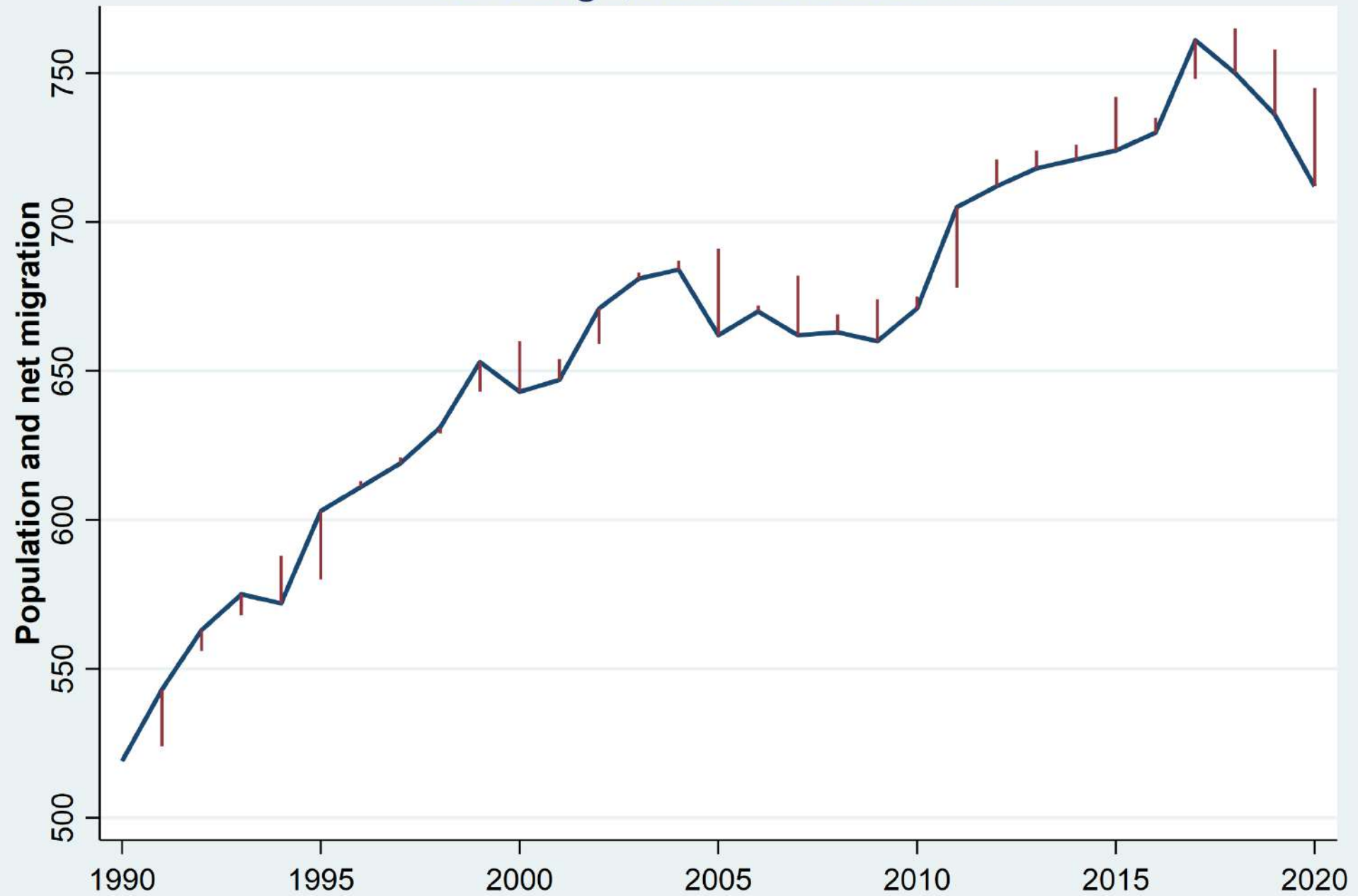
Ruby, Yukon Koyukuk Census Area



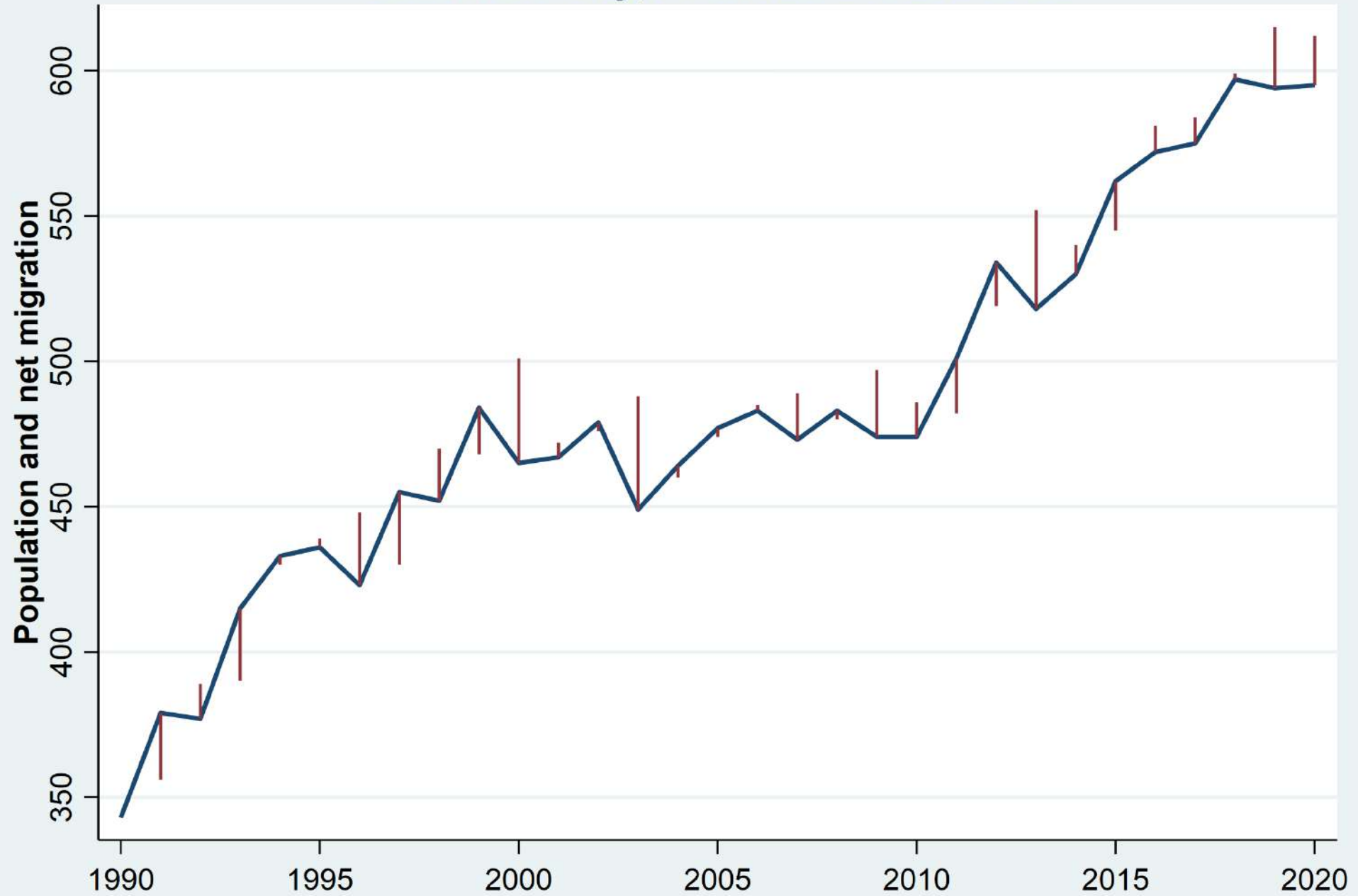
Russian Mission, Kusilvak Census Area



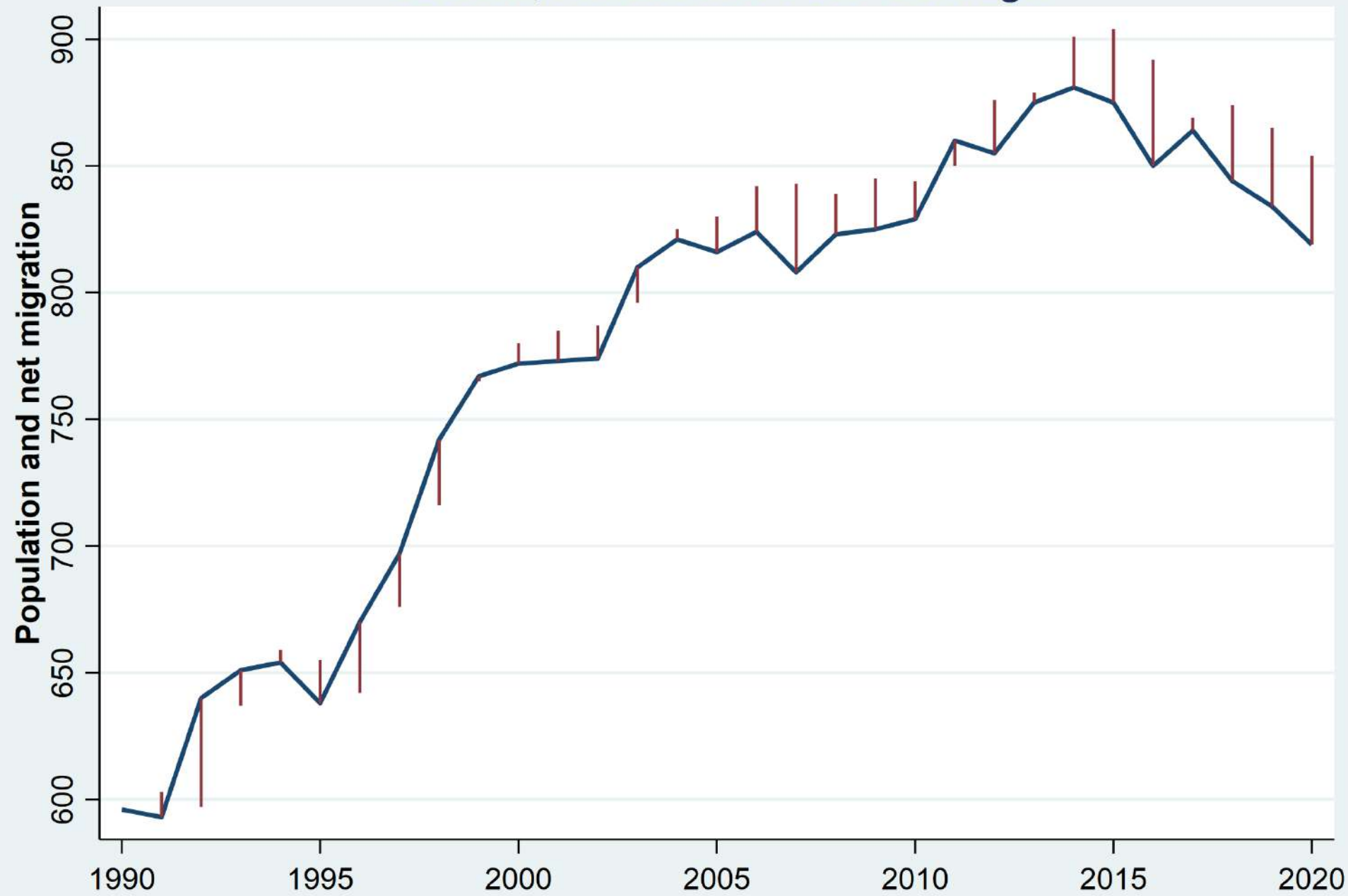
Savoonga, Nome Census Area



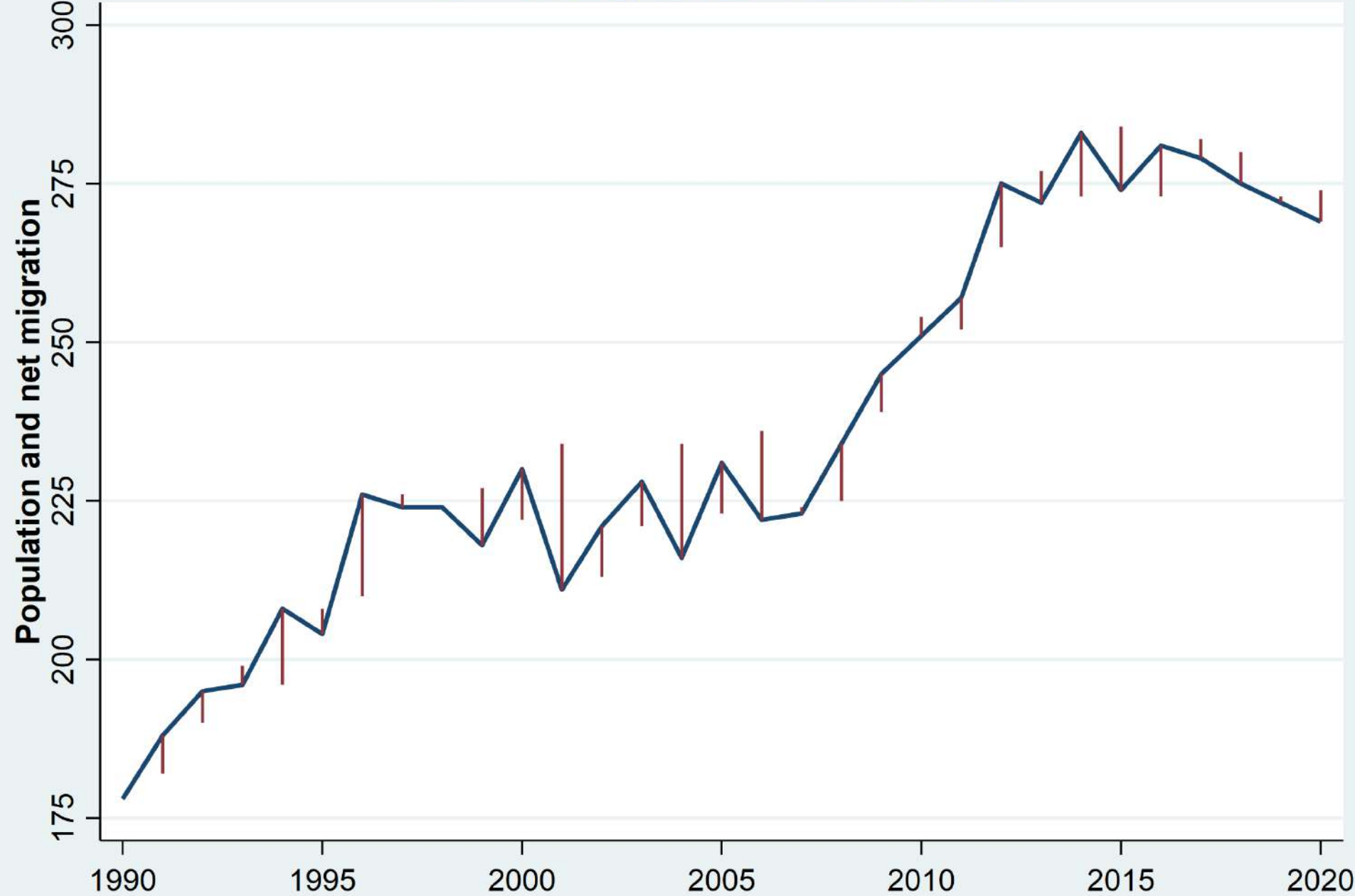
Scammon Bay, Kusilvak Census Area



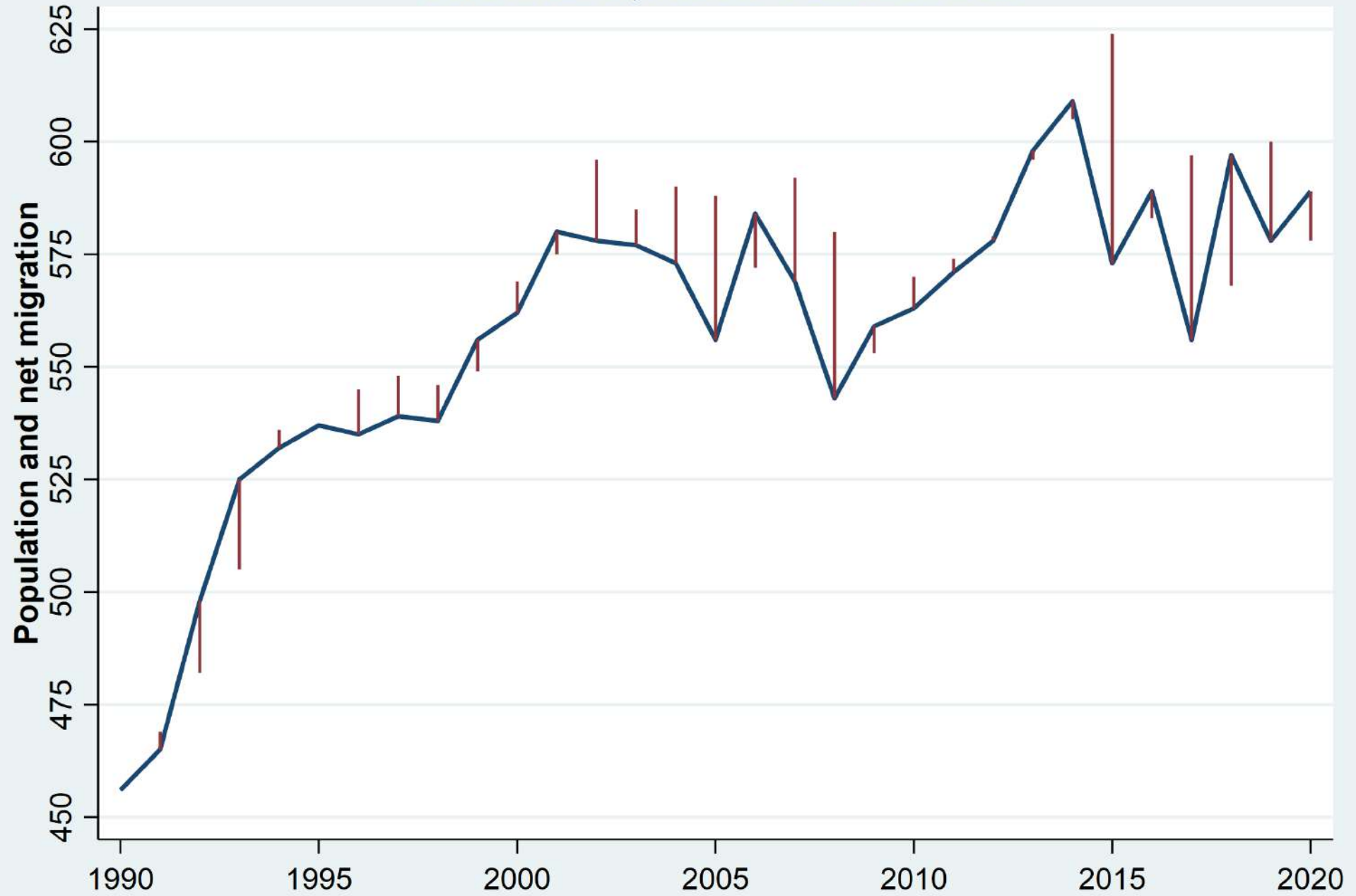
Selawik, Northwest Arctic Borough



Shaktoolik, Nome Census Area



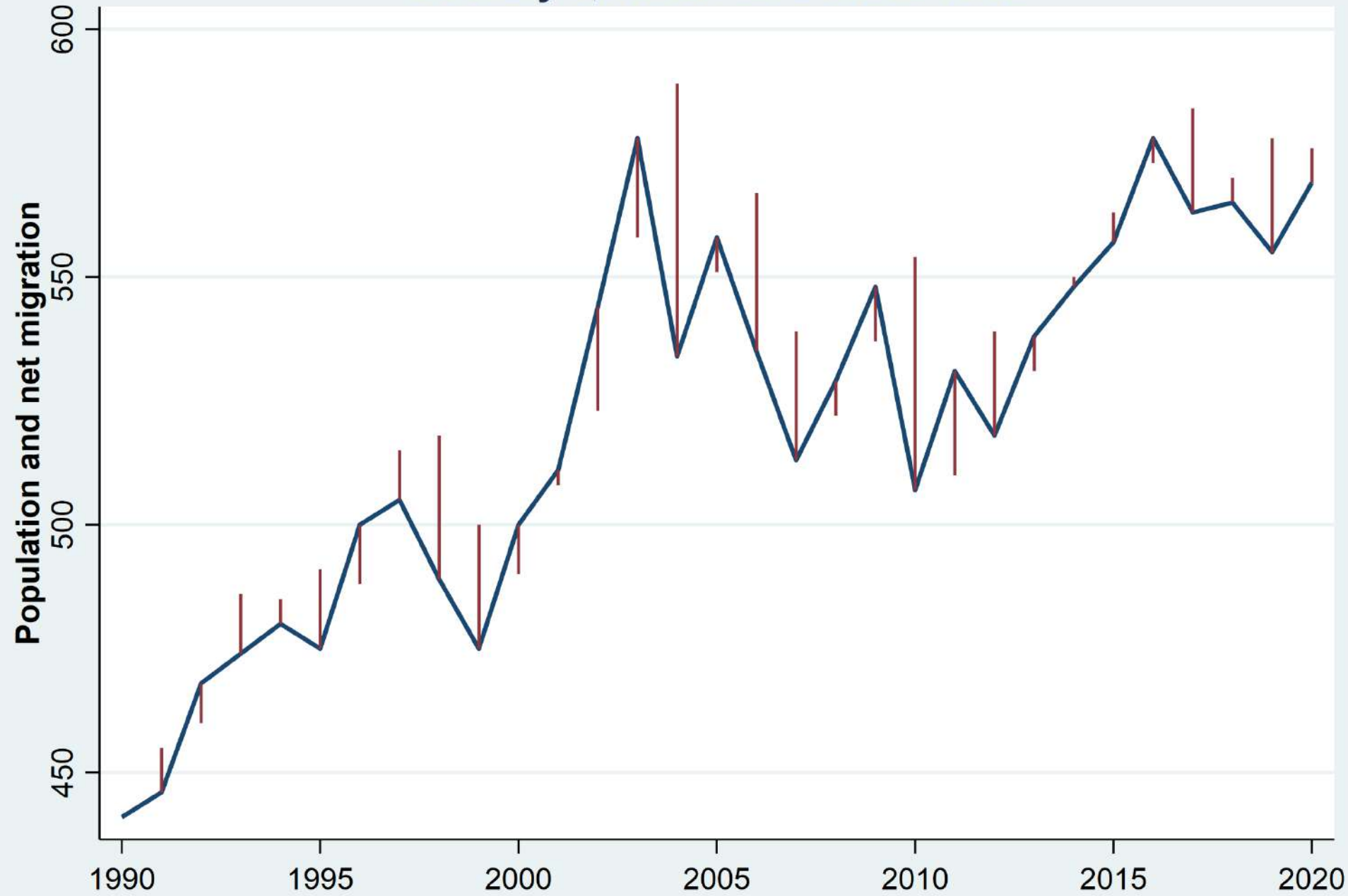
Shishmaref, Nome Census Area



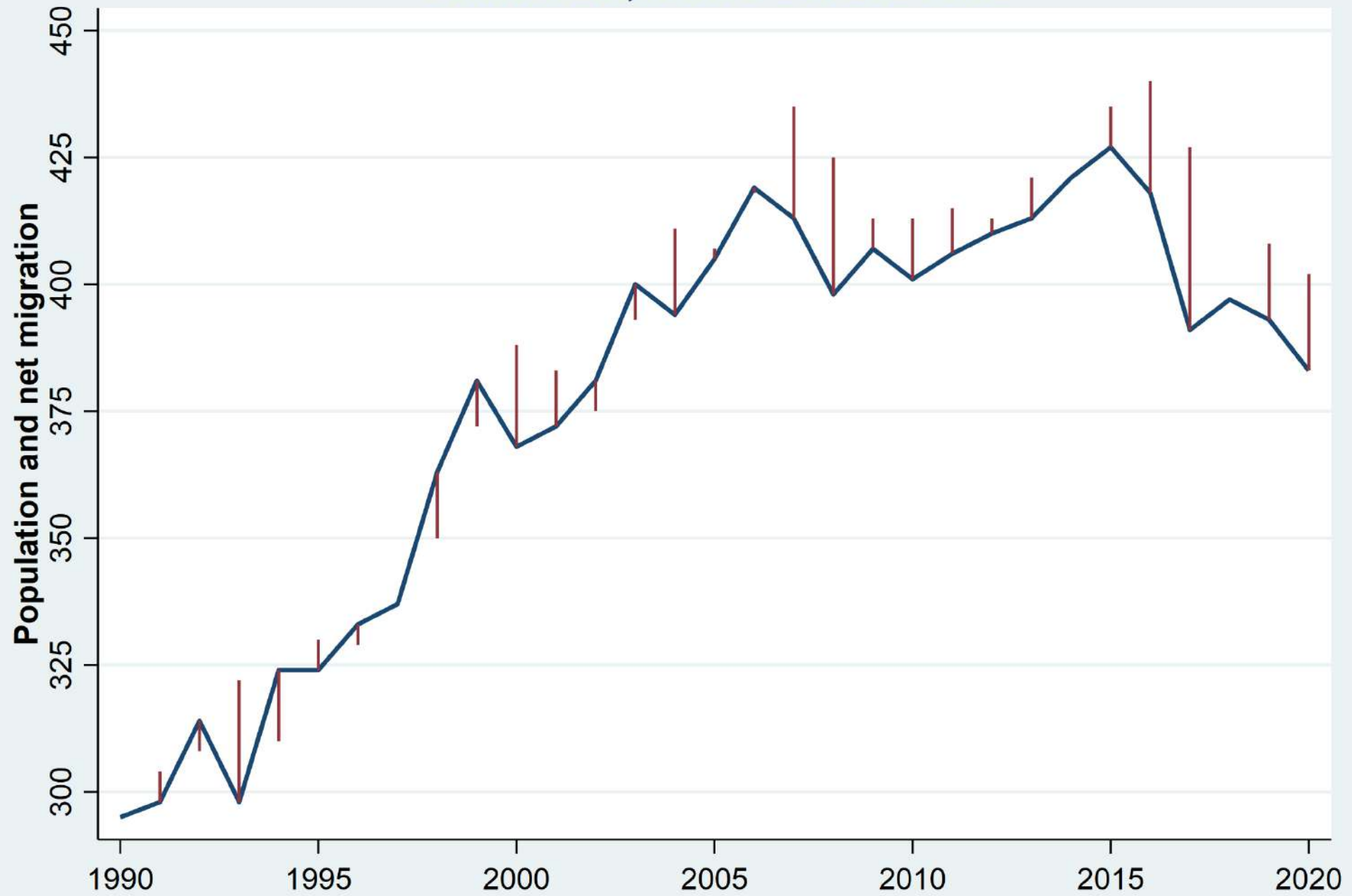
Shungnak, Northwest Arctic Borough



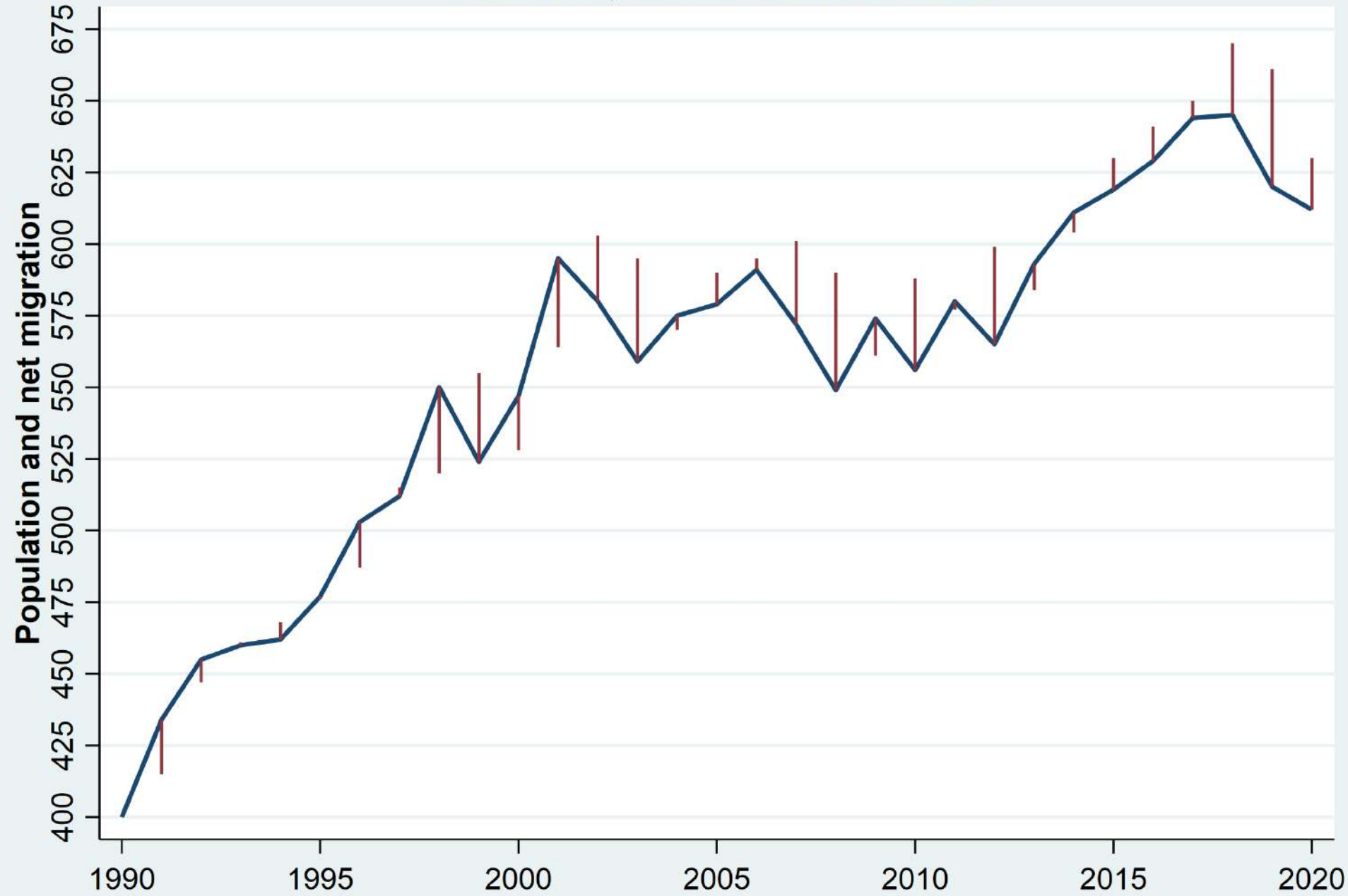
St. Mary's, Kusilvak Census Area



St. Michael, Nome Census Area



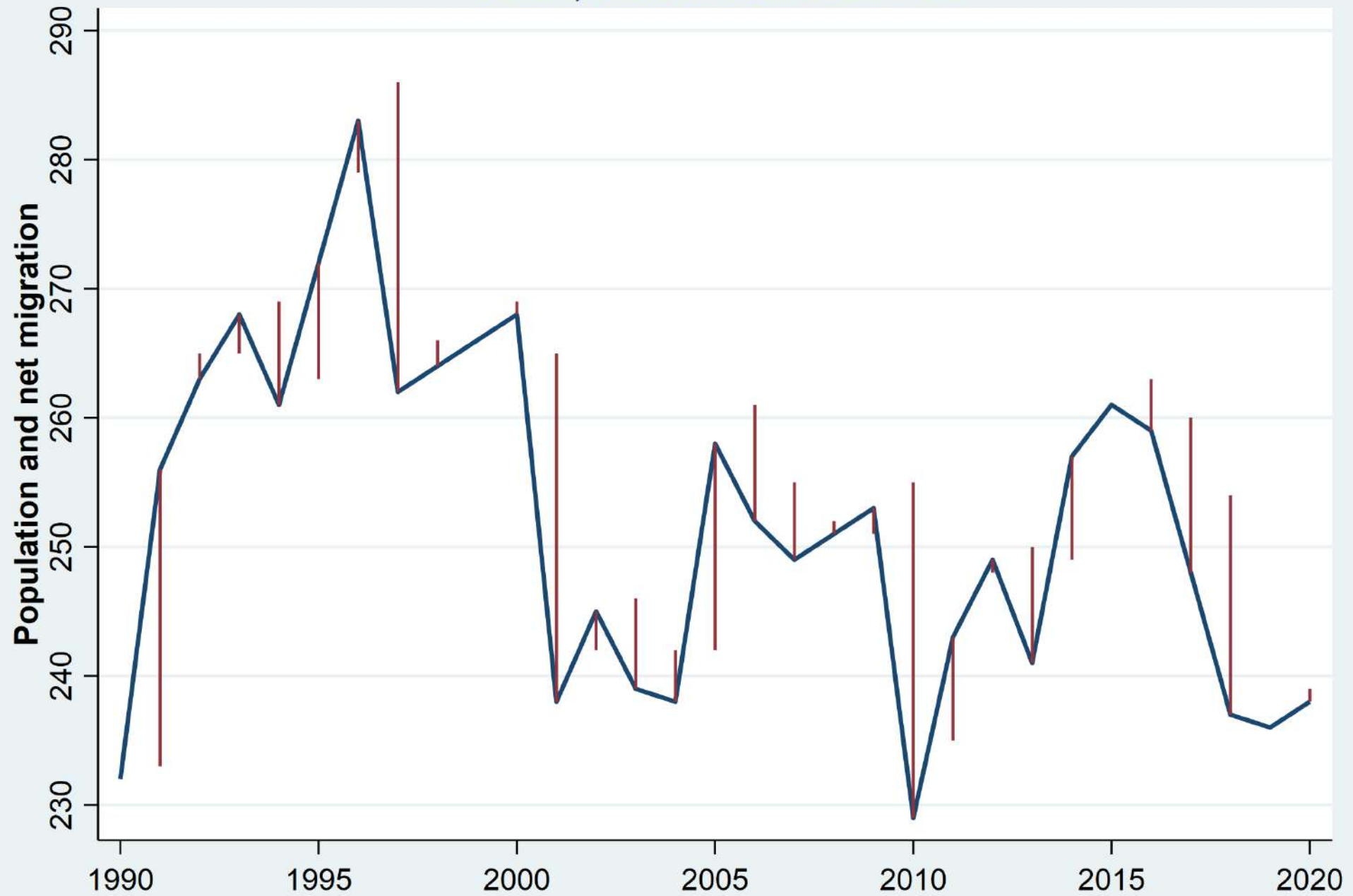
Stebbins, Nome Census Area



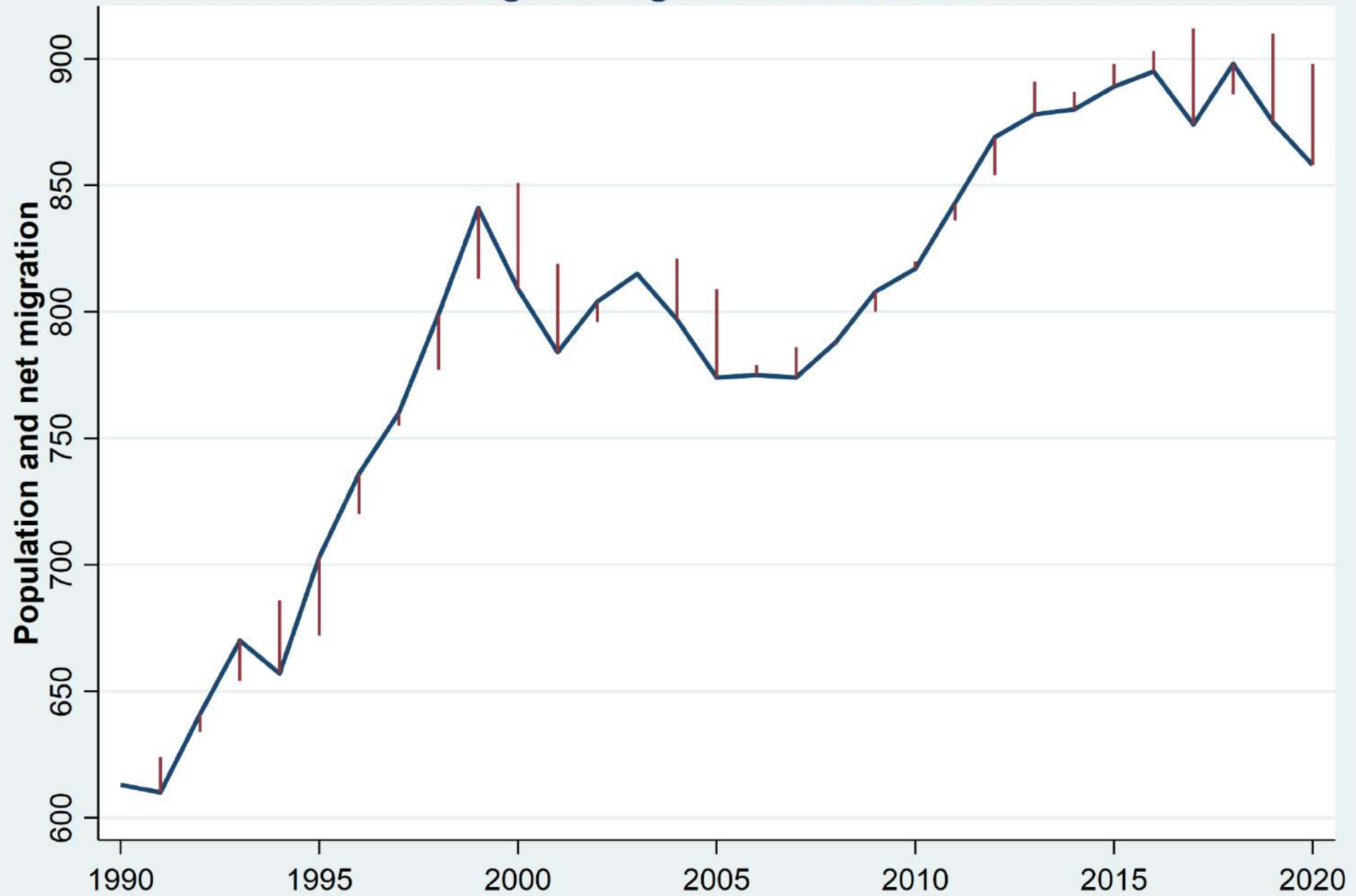
Tanana, Yukon Koyukuk Census Area



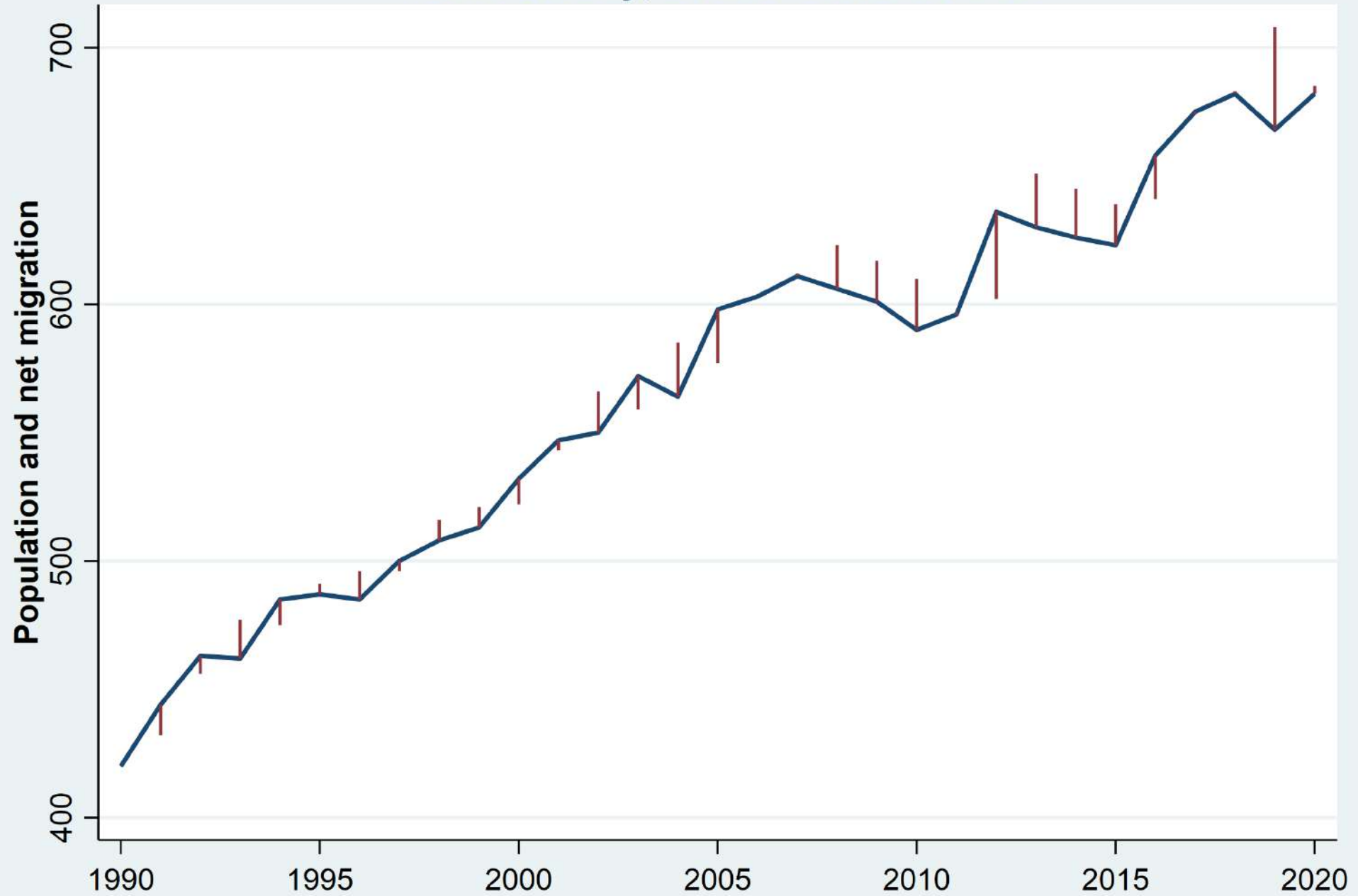
Teller, Nome Census Area



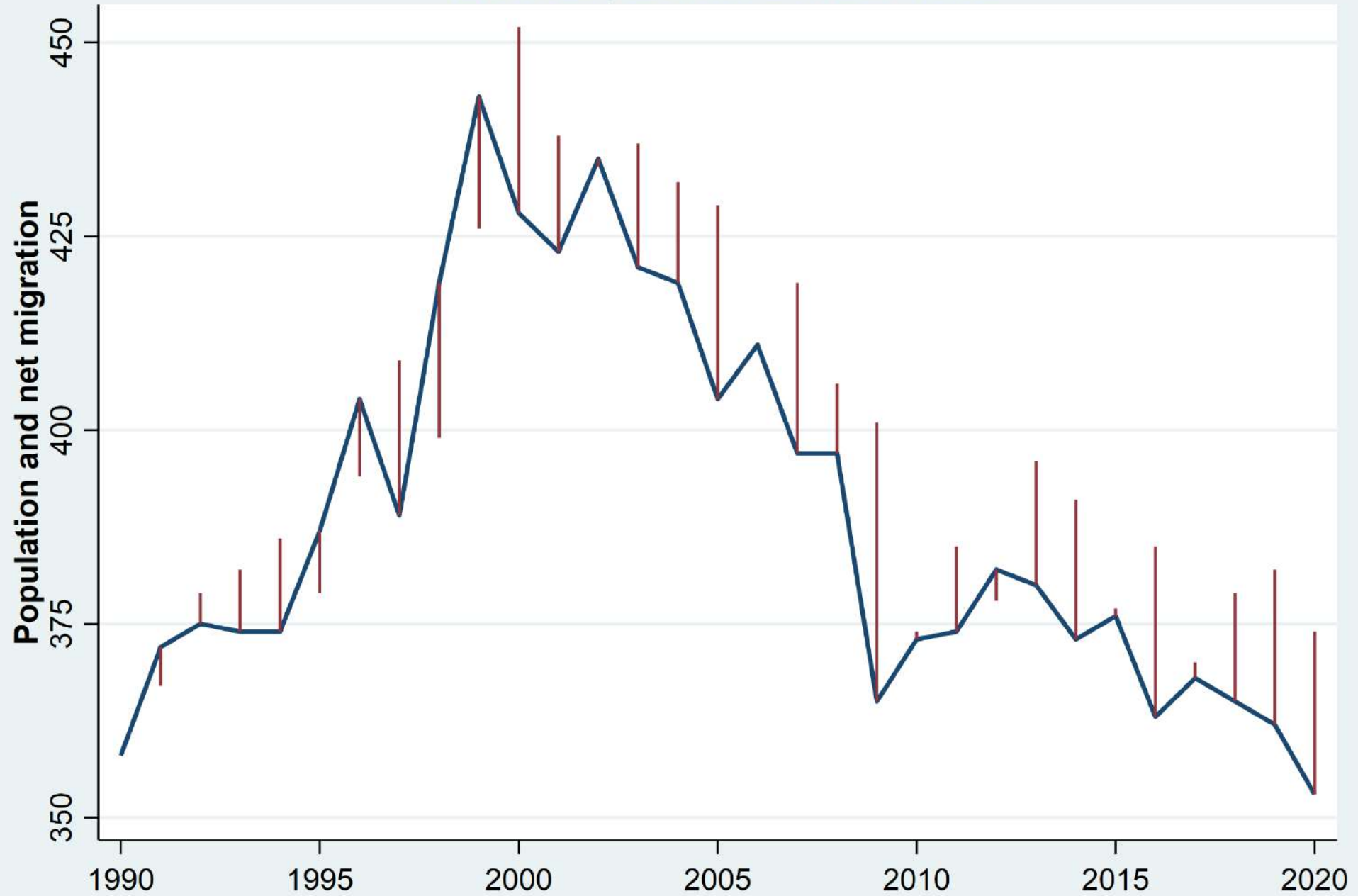
Togiak, Togiak Census Area



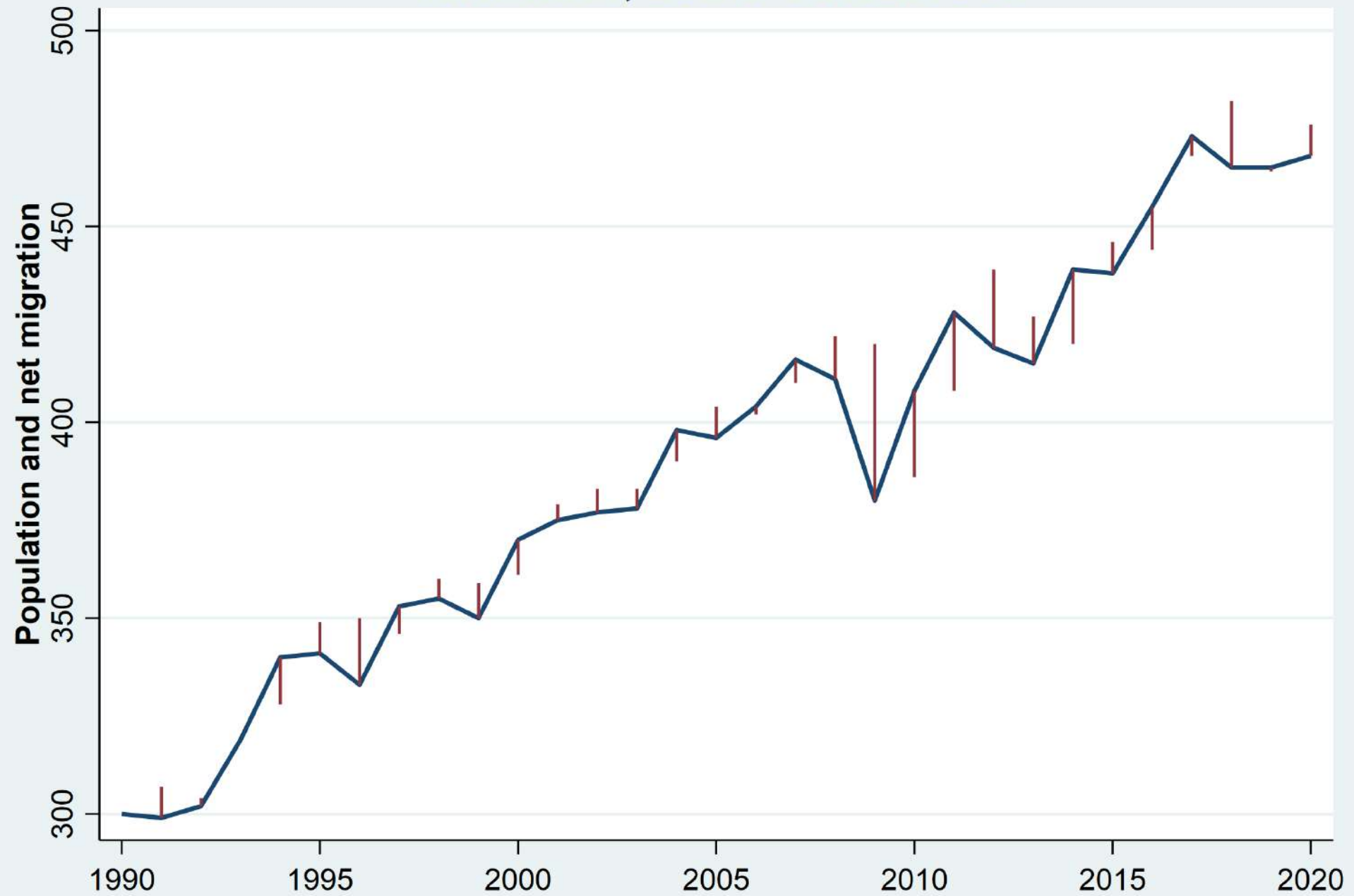
Toksook Bay, Bethel Census Area



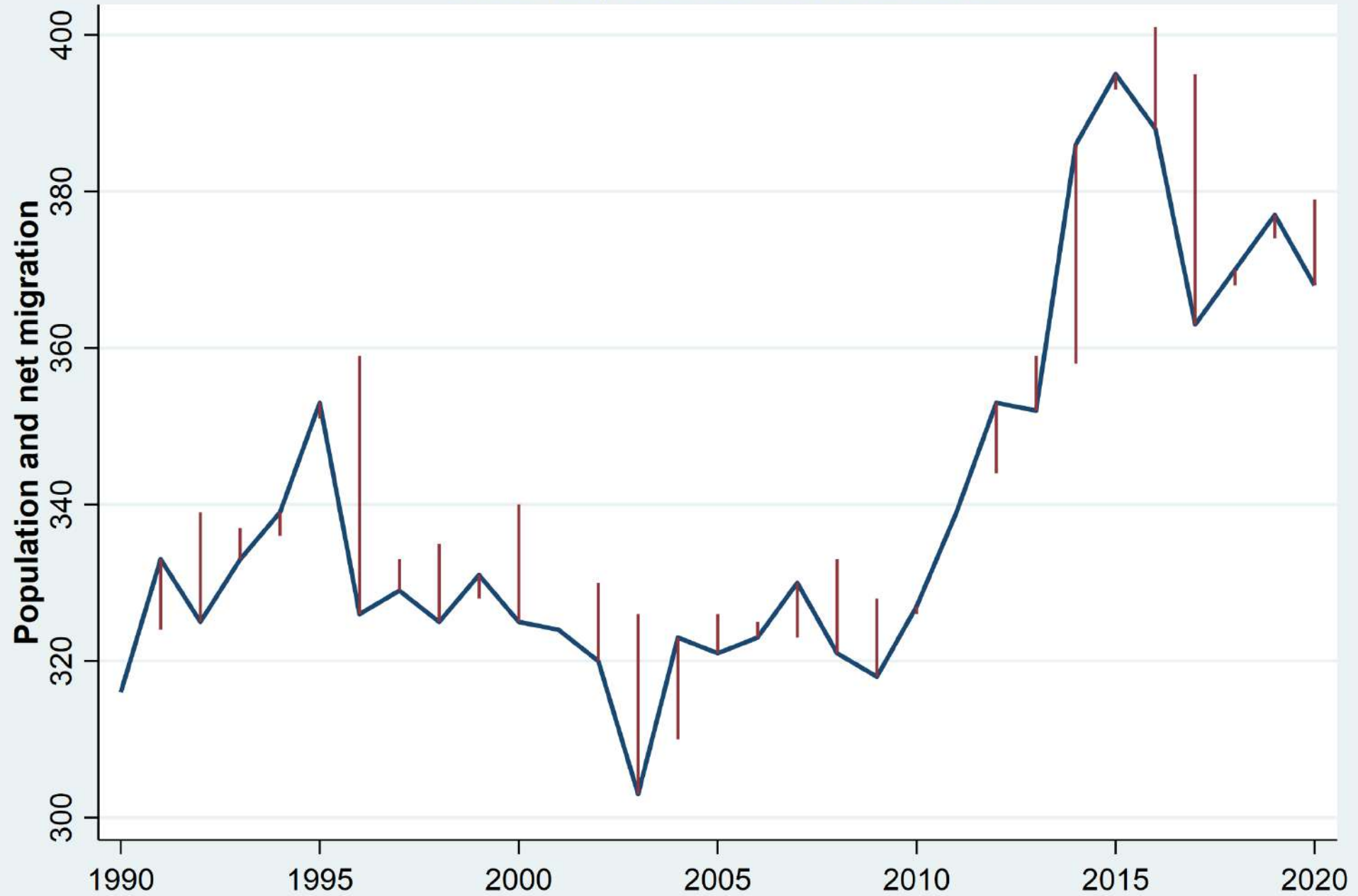
Tuluksak, Bethel Census Area



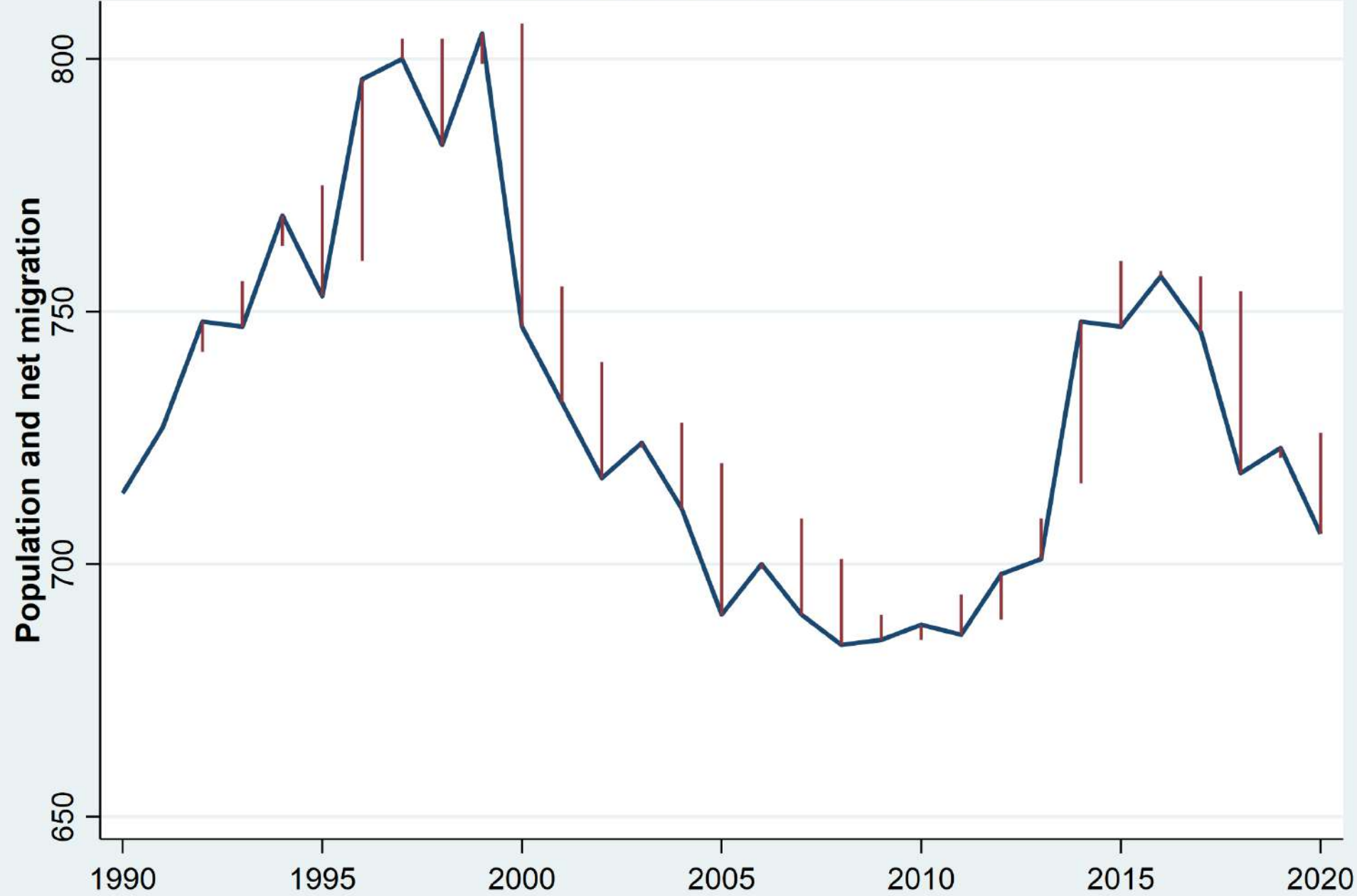
Tuntutuliak, Bethel Census Area



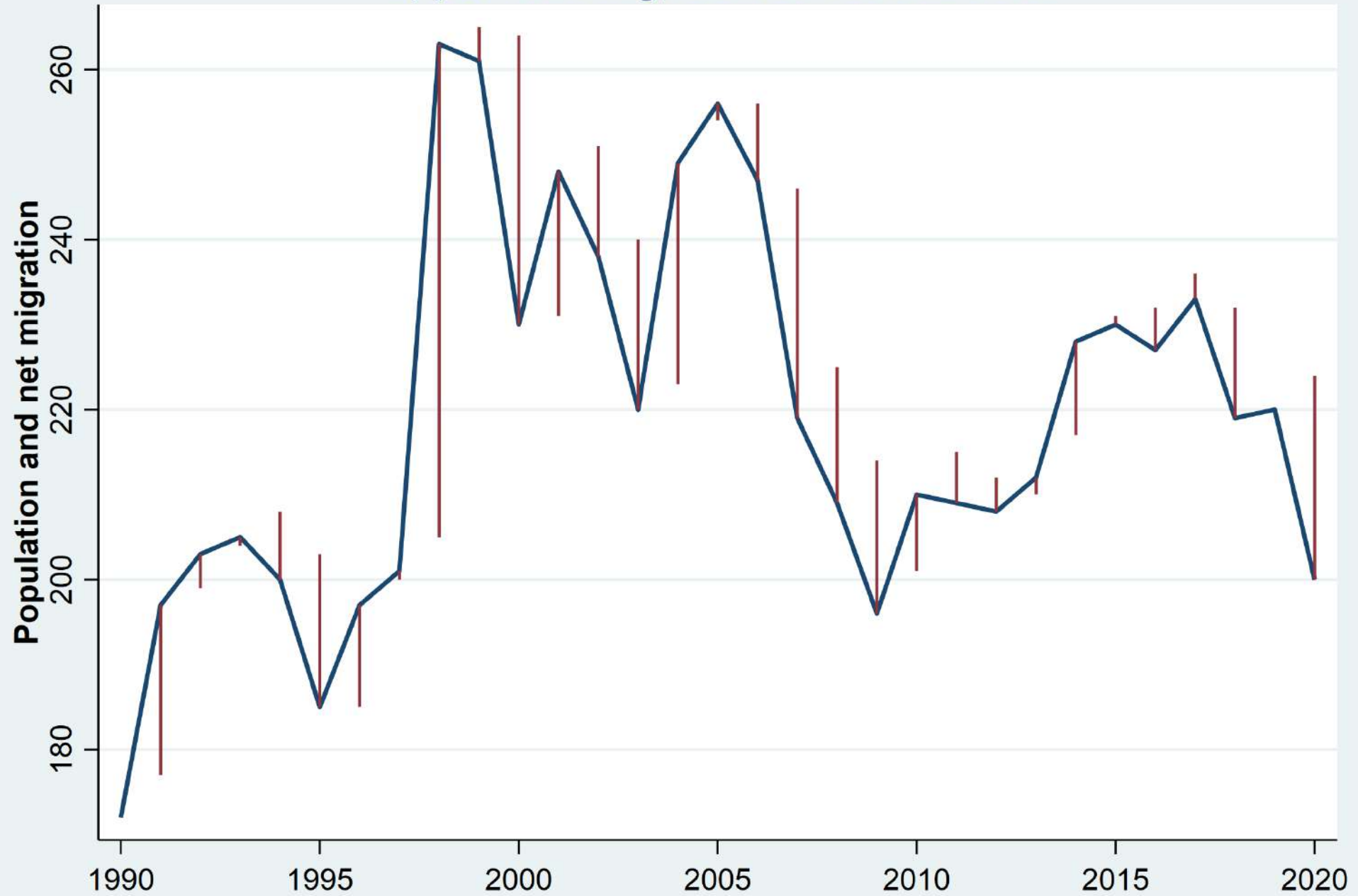
Tununak, Bethel Census Area



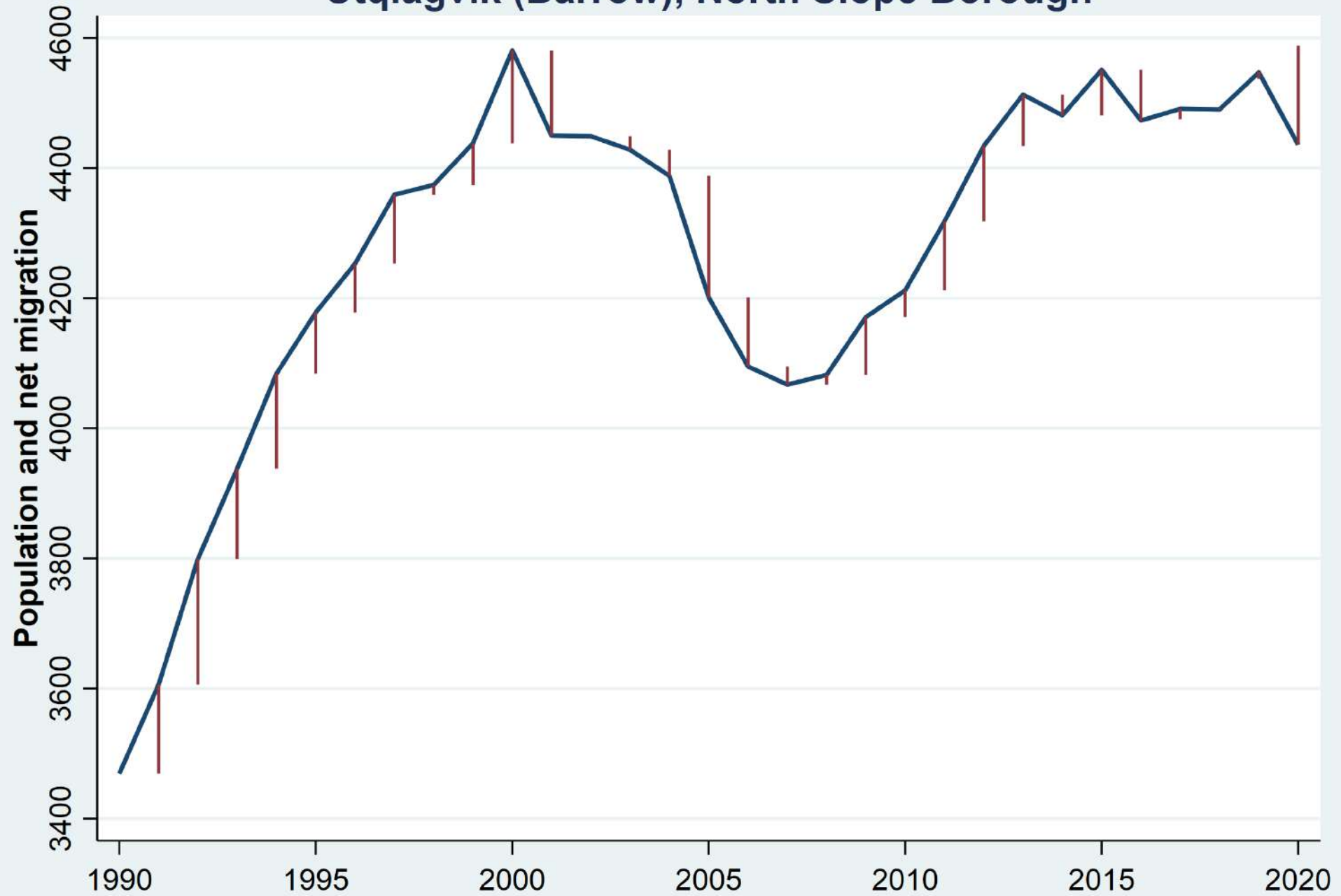
Unalakleet, Nome Census Area



Upper Kalskag, Bethel Census Area



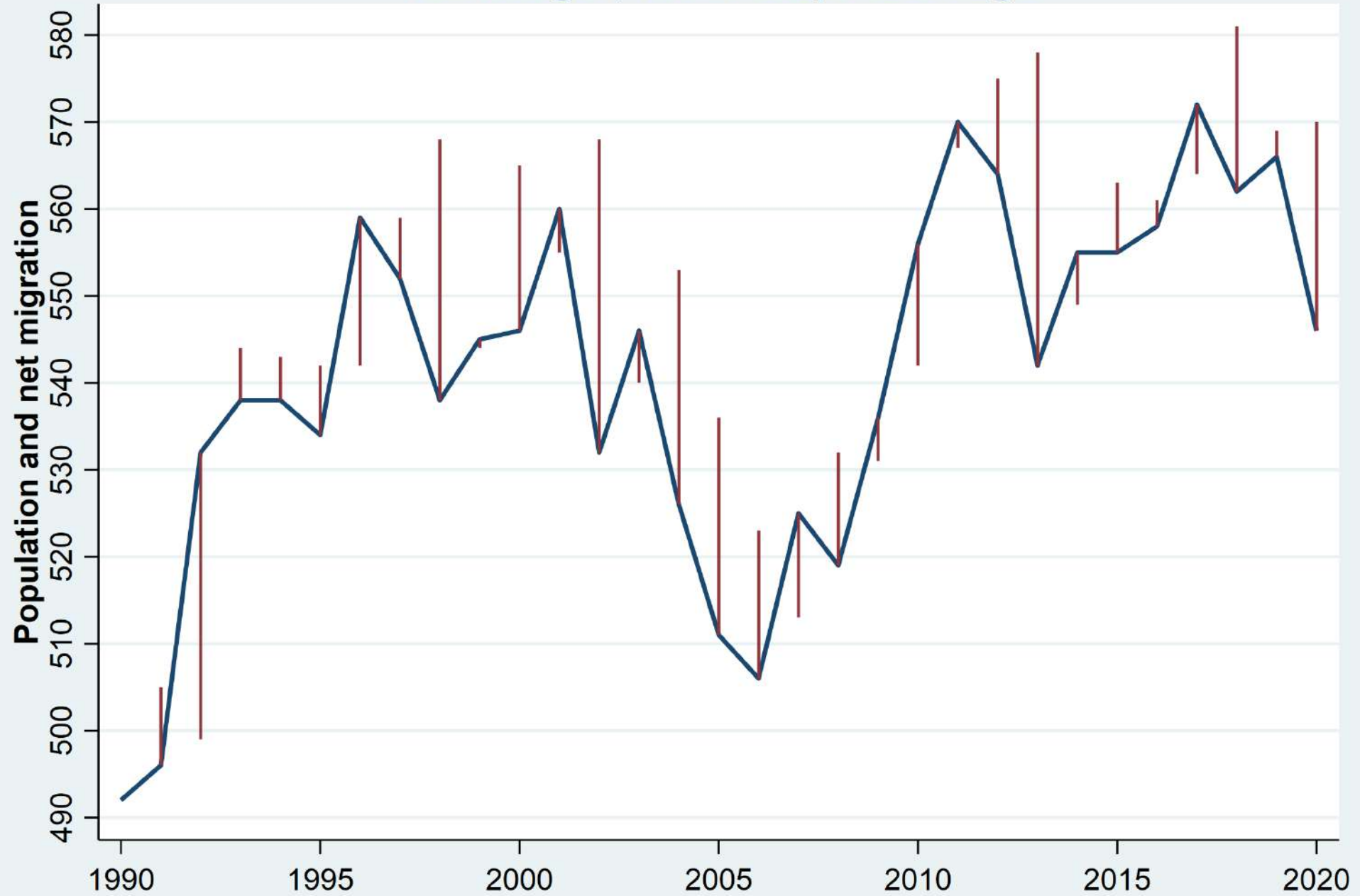
Utqiaġvik (Barrow), North Slope Borough



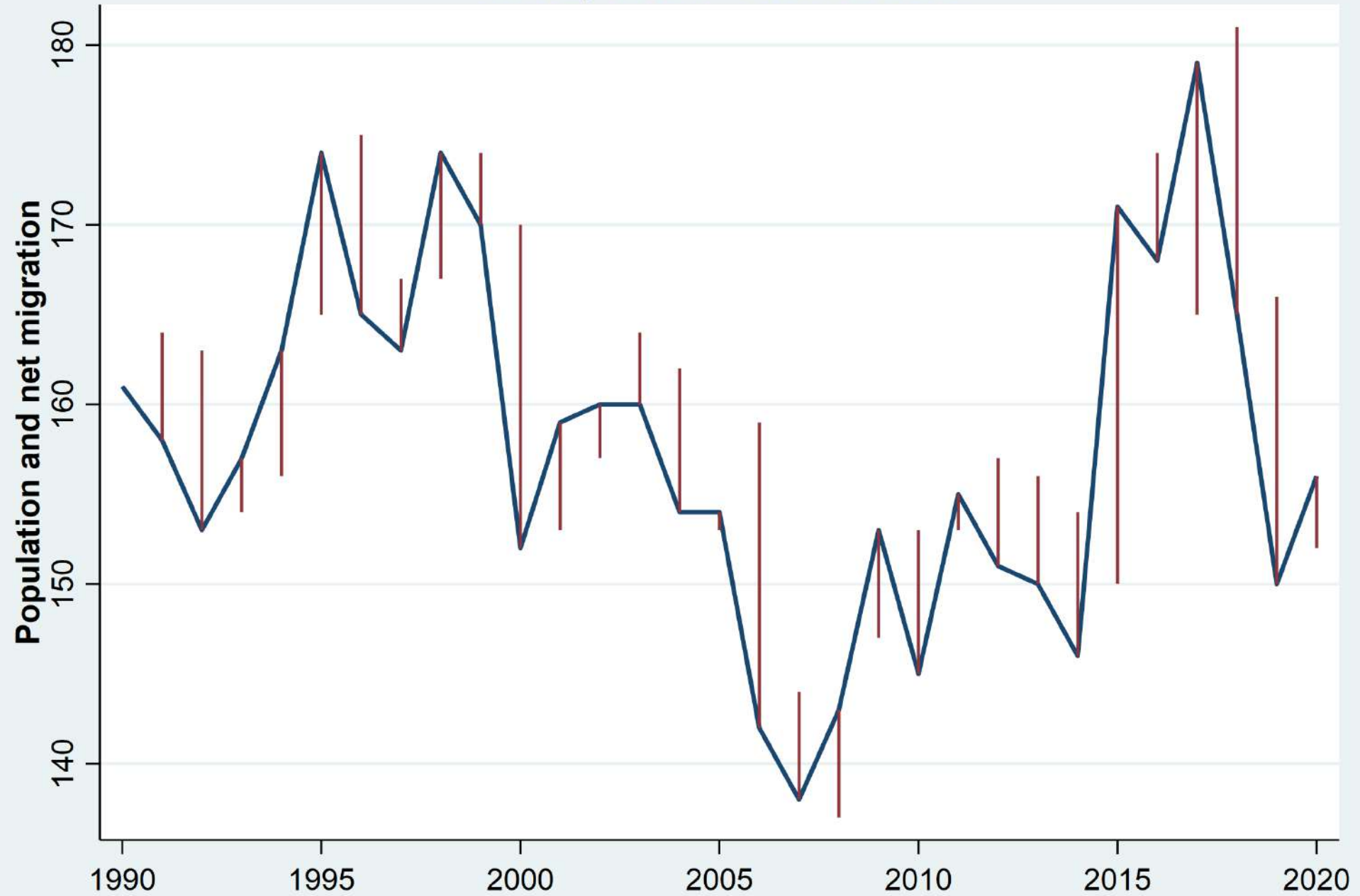
Venetie, Yukon Koyukuk Census Area



Wainwright, North Slope Borough



Wales, Nome Census Area



White Mountain, Nome Census Area

